

MONSANTO INDUSTRIAL CHEMICAL COMPANY
1500 PINE STREET
CAMDEN, CAMDEN COUNTY, NEW JERSEY
EPA ID# NJD 001700830

GENERAL INFORMATION AND SITE HISTORY

The Monsanto Chemical site is located on six acres on both sides of 1500 Pine Street in Camden, Camden County. It lies in a business section of Central Camden with the nearest residential area about one quarter mile away to the east on Park Boulevard. Monsanto is bordered on the north by the Cooper River and adjacent to Garden State Wholesale Inc., which is at the corner of Pine Street and Magnolia Avenue.

The property has been used for industrial purposes since 1899 and has had several owners since then. The first owner on record was Howard T. Justice who sold the property to the Wilkes Company, who in turn sold the property to either Swan Oil or Monsanto. The former operations and transactions are not clear but it is on record that Monsanto purchased the property on February 1, 1936.

SITE OPERATIONS OF CONCERN

Monsanto Industrial Chemical Company -

From 1936 to 1981, Monsanto was solely involved in the manufacture of Lampblack. Lampblack is composed of pure carbon and is formed from the burning of #6 fuel oil in an oxygen deficient atmosphere. It was used as a pigment in automobile tires and electrical wire brushes. The facility had a large above ground tank capacity to contain fuel oil and the Lampblack product.

The waste products from the operation included off-spec Lampblack, floor sweeping of soot, scrubber effluent (Lampblack and water), cinders, wood, and paper products.

An onsite, unlined landfill, adjacent to the Cooper River received all waste generated from the Lampblack operation until 1972 when it was closed and capped with soil. From 1972 to 1981, all Lampblack residues were transported off site as solid waste. In June 1981, the entire Lampblack operation was dismantled. All tanks were removed and the landfill was capped with an additional six inches of clay and 1 1/2 inches of clean fill.

From 1981 to the present, Monsanto has been operating a three shift, Monday thru Friday, 32 personnel business involved in the manufacture of specialty chemicals with three basic product categories:

1. Ammonium polyphosphate in powder form used mostly as a fire retardant additive in paint application.
2. Natural bone ash using calcined cattle bone meal as a raw material.
3. Synthetic bone ash using tricalcium phosphate as a raw material.

The bone ash products consist chemically of calcium phosphate and are used mostly in the metallurgical industry as a liner in troughs to prevent metallic parts from adhering to the mold.

There are no hazardous waste streams associated with these operations. The only wastes reported are paper bags which are compacted on site and disposed at a sanitary landfill. The only hazardous waste associated with the facility is drain oil from plant vehicles which is generated at a rate of five gallons every three months. The waste oil is serviced by Pittco periodically.

Monsanto did hold permits pursuant to RCRA prior to 1980 because of the tank storage associated with the Lampblack operation.

In 1980, they applied for interim status because their tank storage diminished and were considered a small scale generator in New Jersey with their waste oil. The facility was finally delisted by the DHWE in 1984 but retained their EPA ID in the event that a need arises for its use.

GROUNDWATER ROUTE

The site is situated within the Atlantic Coastal Plain physiographic province on a low lying, gently rolling plain approximately eighty feet above mean sea level. Underlying the site are unconsolidated sediments of Quaternary, Tertiary, and Cretaceous age, consisting of mostly alternating sands and confining units of silts and clays. The sediments dip to the southeast and are approximately forty feet deep at the site. Below the unconsolidated sediments is the Pre-Cretaceous crystalline bedrock. The major fresh-water aquifer is the Potomac-Raritan-Magothy Formation system. Three major aquifer units, lower, middle, and upper, have been defined within the system and are under artesian conditions. The site borders on the outcrop area of the system which contains leaky confining units between aquifers which allows recharge vertically. There is also chance of hydraulic connections between aquifers here.

The potable water supplied to Camden County is received from several sources. Most comes from the well fields in Pennsauken and Cherry Hill and is purchased from the New Jersey American Water Company. There is also a well as close as one mile away in northern Camden which can supply water to parts of the county. There are no private wells in the area used for drinking but many wells used for industrial purposes.

According to a report, Monsanto installed twelve monitoring wells on the site in August 1980. Four indicating parameters for Lampblack were tested which included naphthalene, acenaphthalene, phenanthrene, and pH. Initial samples taken in 1981 indicated total levels of the selected constituents of approximately 100 ppb and the most recent results of October 26, 1987 indicate levels of the parameters below detectable limits. The testing was done by Chemical Samples and Analytical SVCS Co. in Thorofare, New Jersey. The potential for groundwater contamination does exist for Lampblack as the initial sampling indicated the presence of the indicating parameters for Lampblack was detected at 100 ppb.

SURFACE WATER ROUTE

Surface water use includes industrial as well as recreational use of the Cooper River which is adjacent to the rear of the site.

The potential for surface water contamination via runoff is low since there are no hazardous waste streams associated with the process. There is no record of Monsanto ever possessing any discharge to surface water permits.

AIR ROUTE

In the past, Monsanto held several permits regulating the equipment and control apparatus from the Lampblack operation. Most of the equipment used was bag houses and scrubber systems. The emissions from the Lampblack operation was mainly nuisance dust. SO₂ gas was evolved from the burning of #6 fuel oil but was not a regulated emission. Presently, Monsanto holds similar permits on bag houses and scrubber systems. Nuisance dusts are a major concern along with ammonia given off from the ammonium polyphosphate process.

Several inspections were made on the equipment and control apparatus and there are no records of any permit violations.

The potential for air contamination does exist in the form of nuisance dust and ammonia releases.

SOIL

The only soil sampling on record occurred in November 1983 when it was confirmed that thirty-two tote bins contaminated with 2, 3, 7, 8-TCDD (dioxin) were stored at the facility in the warehouse complex. The bins were never used in any process at the site and were removed and landfilled by CECOS. These bins were acquired from the West Virginia and St. Louis Monsanto facilities.

Three 100 cm² wipe samples from the storage area and two soil samples adjacent to the warehouse were taken by Environmental Testing and Certification Corporation. 2, 3, 7, 8-TCDD was not detected in any of the samples. The potential for soil contamination does exist for Lampblack as the initial groundwater sampling indicated the presence of the indicating parameters for Lampblack at 100 ppb.

DIRECT CONTACT

The potential for direct contact is low. The entire facility is enclosed by a barbed wire fence and a ten foot high brick wall to prevent entry.

The nearest residence is approximately one quarter mile away on Park Boulevard.

FIRE AND EXPLOSION

There have been no reported fires or explosions. The potential is minimal due to the nature of the waste landfilled on site and the current materials used in Monsanto's manufacturing process.

ENFORCEMENT ACTION

In November 1983, the NJDEP directed Monsanto to test for 2, 3, 7, 8-TCDD when it was confirmed that it was stored at the facility at one time. All tests proved negative.

Several inspections were done on the equipment and control apparatus at Monsanto but there are no reports of any Notice's of Violation issued.

receives a low priority for inspection rating. Even though Lampblack is considered non-hazardous, in 1981 initial groundwater samples were collected and analyzed for the indicating parameters of Lampblack (namely the polycyclic aromatic hydrocarbons acenaphthene, anthracene, and phenanthrene). Total levels of the selected constituents were detected at \pm 100 ppb. The most recent sample results of October 1987 indicate levels below detectable limits.

RECOMMENDATIONS

No further action is required by the Bureau of Planning and Assessment but it is recommended that the Bureau of Solid Waste Management review the case to determine if proper closure procedures for the landfill were followed.

Submitted by:

Frank Sorce, HSMS IV
NJDEP Bureau of Planning and Assessment



Preliminary Assessment

MONSANTO INDUSTRIAL CHEMICAL COMPANY
1500 PINE STREET
CAMDEN, NEW JERSEY
CAMDEN COUNTY

EPA ID NJD 001700830



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

| | |
|------------------|----------------|
| L IDENTIFICATION | |
| 01 STATE | 02 SITE NUMBER |
| NJ | D001700830 |

II. SITE NAME AND LOCATION

| | | | | | |
|---|---|------------------------------------|-----------|-----------|--------------|
| 01 SITE NAME (Legal name or operating name of firm) | 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER | | | | |
| Monsanto Industrial Chemical Co. | 1500 Pine Street | | | | |
| 03 CITY | 04 STATE | 05 ZIP CODE | 06 COUNTY | 07 COUNTY | 08 CONG DIST |
| Camden | NJ | 08103 | Camden | | |
| 09 COORDINATES LATITUDE <u>39° 56' 20"</u> | LONGITUDE <u>75° 06' 15"</u> | Block 1262 Lot 17 Block 1261 Lot 2 | | | |

10 DIRECTIONS TO SITE (Starting from nearest public road)

Route 130 south to Airport Circle, Route 30 west (Admiral Wilson Blvd.) to Baird Ave. Exit west to Magnolia Rd. make a right to Pine Street. Make a right at Pine, Monsanto is there.

III. RESPONSIBLE PARTIES

| | | | |
|---|---|-------------|---------------------|
| 01 OWNER (Check one) | 02 STREET (Business, mining, residence) | | |
| Monsanto Company | 800 North Lindberg Blvd. | | |
| 03 CITY | 04 STATE | 05 ZIP CODE | 06 TELEPHONE NUMBER |
| St. Louis | MO | 63166 | 814 694-1000 |
| 07 OPERATOR (Check one and indicate firm owner) | 08 STREET (Business, mining, residence) | | |
| Monsanto Company | 800 North Lindberg Blvd. | | |
| 09 CITY | 10 STATE | 11 ZIP CODE | 12 TELEPHONE NUMBER |
| St. Louis | MO | 63166 | 814 694-1000 |

13 TYPE OF OWNERSHIP (Check one)

A. PRIVATE B. FEDERAL _____ C. STATE D. COUNTY E. MUNICIPAL
 F. OTHER _____ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check one and indicate)

A. RCRA 3001 DATE RECEIVED: / / MONTH DAY YEAR B. UNCONTROLLED WASTE SITE (CERCLA 103) DATE RECEIVED: / / MONTH DAY YEAR C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

| | | | | | |
|--|---|--|-----------------------------------|--|----------------------------------|
| 01 ON SITE INSPECTION | BY (Check all that apply) | | | | |
| <input checked="" type="checkbox"/> YES DATE <u>9, 15, 87</u> MONTH DAY YEAR | <input type="checkbox"/> A. EPA | <input type="checkbox"/> B. EPA CONTRACTOR | <input type="checkbox"/> C. STATE | <input type="checkbox"/> D. OTHER CONTRACTOR | |
| <input type="checkbox"/> NO | <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL | <input type="checkbox"/> F. OTHER: | (Agency name) | | |
| CONTRACTOR NAME(S): _____ | | | | | |
| 02 SITE STATUS (Check one) | 03 YEARS OF OPERATION | | | | |
| <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN | 1900 | Present | BEGINNING YEAR | ENDING YEAR | <input type="checkbox"/> UNKNOWN |

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Lampblack was manufactured from 1900 to 1981. It was formed from the burning of #6 fuel oil in an oxygen deficient atmosphere. Ammonium polyphosphate, natural bone ash, and synthetic bone ash are produced by Monsanto at present.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

All materials are considered non-hazardous and no hazardous waste streams are generated.

V. PRIORITY ASSESSMENT

| | | | | |
|--|---|---|---|--|
| 01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) | | | | |
| <input type="checkbox"/> A. HIGH (Inspection required promptly) | <input type="checkbox"/> B. MEDIUM (Inspection required) | <input checked="" type="checkbox"/> C. LOW (Inspection after standard delay) | <input type="checkbox"/> D. NONE (No further action needed. Complete current disposition form) | |

VI. INFORMATION AVAILABLE FROM

| | | | | |
|--------------------------------------|-----------------------------|-----------------|---------------------|-----------------------------|
| 01 CONTACT | 02 OF (Agency/Organization) | | | 03 TELEPHONE NUMBER |
| | NJDEP/DHWM/BHW SFO | | | (609) 346-8000 |
| 04 PERSON RESPONSIBLE FOR ASSESSMENT | 05 AGENCY | 06 ORGANIZATION | 07 TELEPHONE NUMBER | 08 DATE |
| Frank Sorce, Jr. | NJDEP | DHWM/BPA | (609) 633-2215 | 11 23, 88 MONTH DAY YEAR |



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION**

| | |
|--------------------------|------------------------------|
| I. IDENTIFICATION | |
| 01 STATE NJ | 02 SITE NUMBER D001700830 |

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

| | | | | | |
|--|--|--|---|---------------------------------------|--|
| 01 PHYSICAL STATES (Check all that apply) | | 02 WASTE QUANTITY AT SITE <small>(Measures of waste quantities must be independent)</small> | 03 WASTE CHARACTERISTICS (Check all that apply) | | |
| <input checked="" type="checkbox"/> A SOLID | <input checked="" type="checkbox"/> E SLURRY | TONS _____ | <input type="checkbox"/> A TOXIC | <input type="checkbox"/> E SOLUBLE | <input type="checkbox"/> I HIGHLY VOLATILE |
| <input type="checkbox"/> B POWDER FINES | <input type="checkbox"/> F LIQUID | CUBIC YARDS _____ | <input type="checkbox"/> B CORROSIVE | <input type="checkbox"/> F INFECTIOUS | <input type="checkbox"/> J EXPLOSIVE |
| <input type="checkbox"/> C SLUDGE | <input type="checkbox"/> G GAS | NO. OF DRUMS _____ | <input type="checkbox"/> C RADIOACTIVE | <input type="checkbox"/> G FLAMMABLE | <input type="checkbox"/> K REACTIVE |
| <input type="checkbox"/> D OTHER _____ <small>SPECIFY</small> | | 1 | <input type="checkbox"/> D PERSISTENT | <input type="checkbox"/> H IGNITABLE | <input type="checkbox"/> L INCOMPATIBLE |
| | | | | | <input type="checkbox"/> M NOT APPLICABLE |

III. WASTE TYPE

| CATEGORY | SUBSTANCE NAME | 01 GROSS AMOUNT | 02 UNIT OF MEASURE | 03 COMMENTS |
|----------|-------------------------|-----------------|--------------------|--------------------------------|
| SLU | SLUDGE | | | |
| OLW | OILY WASTE | 1020 | Gallon/year | Oil tank bottoms and drain oil |
| SOL | SOLVENTS | | | |
| PSC | PESTICIDES | | | |
| OCC | OTHER ORGANIC CHEMICALS | | | |
| IOC | INORGANIC CHEMICALS | | | |
| ACD | ACIDS | | | |
| BAS | BASES | | | |
| MES | HEAVY METALS | | | |

IV. HAZARDOUS SUBSTANCES (See Appendix I for most frequent cited CAS Numbers)

V. FEEDSTOCKS (See Appendix for CAS Numbers)

| CATEGORY | 01 FEEDSTOCK NAME | 02 CAS NUMBER | CATEGORY | 01 FEEDSTOCK NAME | 02 CAS NUMBER |
|----------|-------------------|---------------|----------|-------------------|---------------|
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |
| FDS | | | FDS | | |

VI. SOURCES OF INFORMATION (Check specific references e.g. state files sample analysis reports)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE NJ 02 SITE NUMBER D001700830

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: 1981) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION

In August 1980, twelve monitoring wells were installed. Initial groundwater samples were analyzed for the indicating parameters of lampblack. The polycyclic aromatic hydrocarbons were detected at 100 ppb.

01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE:) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION

The potential for surface water contamination is low because lampblack, which is stored on site, is considered non-hazardous and there are no hazardous waste streams associated with the current manufacturing process.

01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE:) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION

No record of air releases or Notices of Violations although the potential does exist for nuisance dusts and ammonia.

01 D FIRE EXPLOSIVE CONDITIONS 02 OBSERVED (DATE:) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION

There have been no reports of fire/explosion and the potential is minimal due to the nature of the waste landfilled on site and the current materials used in Monsanto's manufacturing process.

01 E DIRECT CONTACT 02 OBSERVED (DATE:) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION

The potential for direct contact is low for workers and outside people. A barbed wire fence surrounds the property to prevent entry.

01 F CONTAMINATION OF SOIL 02 OBSERVED (DATE:) POTENTIAL ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (ACRES)

The landfill on site contains residues from previous lampblack production. The landfill has been closed and capped as of 1982. The observed groundwater contamination potentially may contaminate soil also.

01 G DRINKING WATER CONTAMINATION 02 OBSERVED (DATE:) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____

The potential for drinking water contamination is low because lampblack, which is stored on site, is considered non-hazardous and there are no hazardous waste streams associated with the current manufacturing process.

01 H WORKER EXPOSURE/INJURY 02 OBSERVED (DATE:) POTENTIAL ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____

The potential does exist for worker exposure to nuisance dusts and ammonia fumes.

01 I POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE:) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____

The potential for population exposure does exist if a release of ammonia was to occur.



POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

| | |
|----------------|------------------------------|
| 01 STATE NJ | 02 SITE NUMBER D001700830 |
|----------------|------------------------------|

II. HAZARDOUS CONDITIONS AND INCIDENTS Continued:01 J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

The area was completely seeded as of December 1987. There is no evidence of any damage to flora.

01 K DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION Include names of species02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

The potential for damage to fauna is low because lampblack, which was landfilled on site, is considered non-hazardous.

01 L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

The potential for damage to the food chain is low because lampblack, which was landfilled on site, is considered non-hazardous.

01 M. UNSTABLE CONTAINMENT OF WASTES
Spills Runoff Standing liquids Leaking drums02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

The on site landfill contains residues of a lampblack operation. The landfill is unlined.

01 N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

There is no evidence of damage to offsite property.

01 O. CONTAMINATION OF SEWERS. STORM DRAINS. WWTPs
04 NARRATIVE DESCRIPTION02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

There are no reports of any contamination to sewers, storm drains, or waste water treatment plants.

01 P. ILLEGAL UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

There is no evidence of illegal or unauthorized dumping.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

In December 1983, testing was done for 2,3,7,8-TCDD because it was stored on site for a short period. All tests were negative.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS
_____V. SOURCES OF INFORMATION (List specific references e.g., state files, sample analysis reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

| I. IDENTIFICATION | |
|-------------------|------------------------------|
| 01 STATE NJ | 02 SITE NUMBER D001700830 |

II. PERMIT INFORMATION

| 01 TYPE OF PERMIT ISSUED (Check all that apply) | 02 PERMIT NUMBER | 03 DATE ISSUED | 04 EXPIRATION DATE | 05 COMMENTS |
|--|--------------------------|----------------|--------------------|--------------------------|
| <input type="checkbox"/> A. NPDES | | | | |
| <input type="checkbox"/> B. UIC | | | | |
| <input type="checkbox"/> C. AIR | See Stack Log Attachment | | | |
| <input type="checkbox"/> D. RCRA | NJD001700830 | | 1980 | |
| <input type="checkbox"/> E. RCRA INTERIM STATUS | | 1980 | 3/19/84 | Delisted by DHWE 3/21/84 |
| <input type="checkbox"/> F. SPCC PLAN | | | | |
| <input type="checkbox"/> G. STATE | | | | |
| <input type="checkbox"/> H. LOCAL | | | | |
| <input type="checkbox"/> I. OTHER | | | | |
| <input type="checkbox"/> J. NONE | | | | |

III. SITE DESCRIPTION

| 01 STORAGE DISPOSAL (Check all that apply) | 02 AMOUNT | 03 UNIT OF MEASURE | 04 TREATMENT (Check all that apply) | 05 OTHER |
|---|-----------|--------------------|--|----------|
| <input type="checkbox"/> A. SURFACE IMPOUNDMENT | | | <input type="checkbox"/> A. INCINERATION | |
| <input type="checkbox"/> B. PILES | | | <input type="checkbox"/> B. UNDERGROUND INJECTION | |
| <input type="checkbox"/> C. DRUMS, ABOVE GROUND | | | <input type="checkbox"/> C. CHEMICAL/PHYSICAL | |
| <input checked="" type="checkbox"/> D. TANK, ABOVE GROUND | 10,000 | Gallons | <input type="checkbox"/> D. BIOLOGICAL | |
| <input type="checkbox"/> E. TANK, BELOW GROUND | | | <input type="checkbox"/> E. WASTE OIL PROCESSING | |
| <input checked="" type="checkbox"/> F. LANDFILL | | 12 ft. deep | <input type="checkbox"/> F. SOLVENT RECOVERY | |
| <input type="checkbox"/> G. LANDFARM | | | <input type="checkbox"/> G. OTHER RECYCLING/RECOVERY | |
| <input type="checkbox"/> H. OPEN DUMP | | | <input type="checkbox"/> H. OTHER | (Spec.) |
| <input type="checkbox"/> I. OTHER | | | | |

07 COMMENTS

IV. CONTAINMENT

| 01 CONTAINMENT OF WASTES (Check one) | 02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS ETC |
|--|---|
| <input type="checkbox"/> A. ADEQUATE, SECURE | Lampblack was placed in onsite unlined landfill until 1981 when it was capped. Waste oil stored on site in a closed metal container. |

V. ACCESSIBILITY

| 01 WASTE EASILY ACCESSIBLE | 02 COMMENTS | |
|------------------------------|-----------------------------|--|
| <input type="checkbox"/> YES | <input type="checkbox"/> NO | |

Landfill containing waste from lampblack process is capped and is not accessable to workers or outside people.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

| I. IDENTIFICATION | |
|-------------------|----------------|
| 01 STATE | 02 SITE NUMBER |
| NJ | D001700830 |

II. DRINKING WATER SUPPLY

| 01 TYPE OF DRINKING SUPPLY <small>(Check as applicable)</small> | | 02 STATUS | | | 03 DISTANCE TO SITE | |
|--|--|---|---|-----------|---------------------|------|
| SURFACE | WELL | ENDANGERED | AFFECTED | MONITORED | A. | B. |
| COMMUNITY | A. <input type="checkbox"/> B. <input checked="" type="checkbox"/> C. <input type="checkbox"/> | A. <input type="checkbox"/> B. <input type="checkbox"/> C. <input type="checkbox"/> | D. <input type="checkbox"/> E. <input type="checkbox"/> F. <input type="checkbox"/> | | A. 1 | (mi) |
| NON-COMMUNITY | D. <input type="checkbox"/> | | | | B. _____ | (mi) |

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

- A. ONLY SOURCE FOR DRINKING B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL IRRIGATION
(No other water sources available)
- C. COMMERCIAL, INDUSTRIAL IRRIGATION
(Limited other sources available)
- D. NOT USED, UNUSEABLE

| | |
|--|---|
| 02 POPULATION SERVED BY GROUND WATER _____ | 03 DISTANCE TO NEAREST DRINKING WATER WELL _____ 1 (mi) |
| 04 DEPTH TO GROUNDWATER 6' (ft) | 05 DIRECTION OF GROUNDWATER FLOW Southwest |

06 DEPTH TO AQUIFER OF CONCERN _____ (ft)

07 POTENTIAL YIELD OF AQUIFER _____ (gpd)

08 SOLE SOURCE AQUIFER

YES NO

09 DESCRIPTION OF WELLS (including usage, depth and location relative to population and buildings).

Camden County pulls its potable water supply from several sources. Most of the water supply comes from both the Pennsauken and Cherry Hill well field and is purchased from the New Jersey American Water Company. There is also a well in Northern Camden. The exact amounts cannot be determined.

| 10 RECHARGE AREA | | 11 DISCHARGE AREA | |
|------------------------------|----------|------------------------------|----------|
| <input type="checkbox"/> YES | COMMENTS | <input type="checkbox"/> YES | COMMENTS |
| <input type="checkbox"/> NO | | <input type="checkbox"/> NO | |

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

- A. RESERVOIR, RECREATION DRINKING WATER SOURCE
- B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
- C. COMMERCIAL, INDUSTRIAL
- D. NOT CURRENTLY USED

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

| NAME: | AFFECTED | DISTANCE TO SITE |
|--------------|--------------------------|------------------|
| Copper River | <input type="checkbox"/> | Adjacent (mi) |
| | <input type="checkbox"/> | _____ (mi) |
| | <input type="checkbox"/> | _____ (mi) |

V. DEMOGRAPHIC AND PROPERTY INFORMATION

| 01 TOTAL POPULATION WITHIN | | | 02 DISTANCE TO NEAREST POPULATION |
|--|--|--|-----------------------------------|
| ONE (1) MILE OF SITE A. 200 NO. OF PERSONS | TWO (2) MILES OF SITE B. 1000 NO. OF PERSONS | THREE (3) MILES OF SITE C. 10,000 NO. OF PERSONS | .25 (mi) |

| 03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 250 | 04 DISTANCE TO NEAREST OFF-SITE BUILDING .1 (mi) |
|--|---|
|--|---|

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Monsanto is located in a business section of Camden. There are several small businesses in the immediate area, a high school .5 miles away, and areas of row homes as close as .25 miles away.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

| I. IDENTIFICATION | |
|-------------------|----------------|
| 01 STATE | 02 SITE NUMBER |
| NJ | D001700830 |

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE Check one

A $10^{-5} - 10^{-6}$ cm/sec B $10^{-4} - 10^{-5}$ cm/sec C $10^{-3} - 10^{-2}$ cm/sec D. GREATER THAN 10^{-2} cm/sec

02 PERMEABILITY OF BEDROCK Check one

A IMPERMEABLE (Less than 10^{-6} cm/sec) B RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-5}$ cm/sec) C RELATIVELY PERMEABLE ($10^{-2} - 10^{-3}$ cm/sec) D VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

40

(ft.)

04 DEPTH OF CONTAMINATED SOIL ZONE

(ft.)

05 SOIL pH

06 NET PRECIPITATION

12

(in.)

07 ONE YEAR 24 HOUR RAINFALL

2.5

(in.)

08 SLOPE
SITE SLOPE

< 10

%

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

09 FLOOD POTENTIAL

100 to 500

SITE IS IN _____ YEAR FLOODPLAIN

10

SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (Ex. Ponds, Lakes, Rivers, etc.)

ESTUARINE

OTHER

12 DISTANCE TO CRITICAL HABITAT (for endangered species)

A 5 (mi.)

B _____ (mi.)

ENDANGERED SPECIES

NA

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL STATE PARKS,
FORESTS OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A .25 (mi.)

B .5 (mi.)

C _____ (mi.) D _____ (mi.)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Monsanto is located in a business section of Camden with the nearest residence about .25 miles away. It is bordered on the north by the Cooper River. The site is situated in a low lying plain about 80 feet above mean sea level.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

| I. IDENTIFICATION | |
|-------------------|----------------|
| 01 STATE | 02 SITE NUMBER |
| NJ | D001700830 |

II. SAMPLES TAKEN

| SAMPLE TYPE | 01 NUMBER OF SAMPLES TAKEN | 02 SAMPLES SENT TO | 03 ESTIMATED DATE RESULTS AVAILABLE |
|---------------|----------------------------|---|-------------------------------------|
| GROUNDWATER | 5 | Chemical samples & analytical Svcs. | |
| SURFACE WATER | | | |
| WASTE | | | |
| AIR | | | |
| RUNOFF | | | |
| SPILL | | | |
| SOIL | 5 | Environmental Testing & Certification Corp. | |
| VEGETATION | | | |
| OTHER | | | |

III. FIELD MEASUREMENTS TAKEN

| 01 TYPE | 02 COMMENTS |
|---------|-------------|
| | |
| | |
| | |
| | |
| | |
| | |

IV. PHOTOGRAPHS AND MAPS

| 01 TYPE | 02 IN CUSTODY OF |
|---|--------------------------------------|
| | (Name of organization or individual) |
| 03 MAPS | 04 LOCATION OF MAPS |
| <input type="checkbox"/> YES <input type="checkbox"/> NO | |

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

[Large empty box for narrative description]

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

[Large empty box for sources of information]



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

| | |
|----------|----------------|
| 01 STATE | 02 SITE NUMBER |
| NJ | D001700830 |

II. CURRENT OWNER(S)

| | | | | | |
|--|-----------------------|---|---------------|----------|-------------|
| 01 NAME Monsanto Company | 02 D+B NUMBER | 08 NAME | 09 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 800 North Lindberg Blvd. | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | 11 SIC CODE | | |
| 05 CITY St. Louis | 06 STATE Mo | 07 ZIP CODE 63166 | 12 CITY | 13 STATE | 14 ZIP CODE |
| 01 NAME | 02 D+B NUMBER | 08 NAME | 09 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | 11 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |
| 01 NAME | 02 D+B NUMBER | 08 NAME | 09 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | 11 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |
| 01 NAME | 02 D+B NUMBER | 08 NAME | 09 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | 11 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |

III. PREVIOUS OWNER(S) (list most recent first)

| | | | | | |
|--|---------------|---|---------------|----------|-------------|
| 01 NAME Swan Oil | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1500 Pine Street | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| Camden | NJ | 08103 | | | |
| 01 NAME | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| 01 NAME | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | 04 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |

V. SOURCES OF INFORMATION (Site specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

| I. IDENTIFICATION | |
|-------------------|----------------|
| 01 STATE | 02 SITE NUMBER |
| NJ | D001700830 |

| II. CURRENT OPERATOR <small>(Provide if different from owner)</small> | | | OPERATOR'S PARENT COMPANY <small>(If applicable)</small> | | |
|---|-------------------------------------|----------------------|---|----------------|----------------------|
| 01 NAME Monsanto Company | 02 D+B NUMBER | | 10 NAME Monsanto Company | 11 D+B NUMBER | |
| 03 STREET ADDRESS <small>(P.O. Box, RFD#, etc.)</small> 1500 Pine Street | 04 SIC CODE | | 12 STREET ADDRESS <small>(P.O. Box, RFD#, etc.)</small> 800 North Lindberg Blvd. | 13 SIC CODE | |
| 05 CITY Camden, | 06 STATE NJ | 07 ZIP CODE 08103 | 14 CITY St. Louis | 15 STATE Mo | 16 ZIP CODE 63166 |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER | | | | |
| III. PREVIOUS OPERATOR(S) <small>(List most recent first, provide only if different from owner)</small> | | | PREVIOUS OPERATORS' PARENT COMPANIES <small>(If applicable)</small> | | |
| 01 NAME | 02 D+B NUMBER | | 10 NAME | 11 D+B NUMBER | |
| 03 STREET ADDRESS <small>(P.O. Box, RFD#, etc.)</small> | 04 SIC CODE | | 12 STREET ADDRESS <small>(P.O. Box, RFD#, etc.)</small> | 13 SIC CODE | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER DURING THIS PERIOD | | | | |
| 01 NAME | 02 D+B NUMBER | | 10 NAME | 11 D+B NUMBER | |
| 03 STREET ADDRESS <small>(P.O. Box, RFD#, etc.)</small> | 04 SIC CODE | | 12 STREET ADDRESS <small>(P.O. Box, RFD#, etc.)</small> | 13 SIC CODE | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER DURING THIS PERIOD | | | | |
| IV. SOURCES OF INFORMATION <small>(Cite specific references, e.g., state files, sample analysis, reports)</small> | | | | | |



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

| I. IDENTIFICATION | |
|-------------------|------------------------------|
| 01 STATE NJ | 02 SITE NUMBER D001700830 |

II. ON-SITE GENERATOR

| | | | |
|---|----------------|--|--|
| 01 NAME Monsanto Company | 02 D+B NUMBER | | |
| 03 STREET ADDRESS : P.O. Box, RFD #, etc. 1500 Pine Street | 04 SIC CODE | | |
| 05 CITY Camden | 06 STATE NJ | | |

III. OFF-SITE GENERATOR(S)

| | | | | | |
|---|---------------|---|---------------|----------|-------------|
| 01 NAME | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER | | |
| 03 STREET ADDRESS : P.O. Box, RFD #, etc. | 04 SIC CODE | 03 STREET ADDRESS : P.O. Box, RFD #, etc. | 04 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| 01 NAME | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER | | |
| 03 STREET ADDRESS : P.O. Box, RFD #, etc. | 04 SIC CODE | 03 STREET ADDRESS : P.O. Box, RFD #, etc. | 04 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |

IV. TRANSPORTER(S)

| | | | | | |
|---|---------------|---|---------------|----------|-------------|
| 01 NAME | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER | | |
| 03 STREET ADDRESS : P.O. Box, RFD #, etc. | 04 SIC CODE | 03 STREET ADDRESS : P.O. Box, RFD #, etc. | 04 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| 01 NAME | 02 D+B NUMBER | 01 NAME | 02 D+B NUMBER | | |
| 03 STREET ADDRESS : P.O. Box, RFD #, etc. | 04 SIC CODE | 03 STREET ADDRESS : P.O. Box, RFD #, etc. | 04 SIC CODE | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

| | |
|----------------|------------------------------|
| 01 STATE NJ | 02 SITE NUMBER D001700830 |
|----------------|------------------------------|

II. PAST RESPONSE ACTIVITIES

| | | |
|---|---------------|-----------------|
| 01 <input type="checkbox"/> A WATER SUPPLY CLOSED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> B TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> C PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> D SPILLED MATERIAL REMOVED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> E CONTAMINATED SOIL REMOVED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> F WASTE REPACKAGED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> O. EMERGENCY DIKING-SURFACE WATER DIVERSION 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> P. CUTOFF TRENCHES-SUMP 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

| I. IDENTIFICATION | |
|-------------------|------------------------------|
| 01 STATE NJ | 02 SITE NUMBER D001700830 |

II PAST RESPONSE ACTIVITIES Continued

| | | |
|---|---------------|-----------------|
| 01 <input type="checkbox"/> R BARRIER WALLS CONSTRUCTED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> S CAPPING COVERING 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> T. BULK TANKAGE REPAIRED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> U GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> V. BOTTOM SEALED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> W. GAS CONTROL 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> X FIRE CONTROL 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> Y LEACHATE TREATMENT 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> Z AREA EVACUATED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> 1 ACCESS TO SITE RESTRICTED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> 2. POPULATION RELOCATED 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |
| 01 <input type="checkbox"/> 3 OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION | 02 DATE _____ | 03 AGENCY _____ |

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

| I. IDENTIFICATION | |
|-------------------|------------------------------|
| 01 STATE NJ | 02 SITE NUMBER D001700830 |

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION YES NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

1. In November 1983, the NJDEP directed Monsanto to test for 2,3,7,8-TCDD when it was confirmed that it was stored at the facility at one time. All tests proved negative.
2. Several inspections were done on the equipment and control apparatus at Monsanto but there are no reports of any Notices of Violation issued.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
POTENTIAL HAZARDOUS WASTE SITE

SEVERITY INDEX SCORE SHEET

Site Name : MONSANTO INDUSTRIAL CHEMICAL

Alias :

Address : 1500 PINE STREET

City : CAMDEN

County : CAMDEN

Municipality Code :

EPA ID # : NJ10000532

SIN Number: 1

(0=No SIN, 1-9=SIN evaluations)

Latitude (dd-mm-ss) : 39 N 56' 26"

Longitude (dd-mm-ss) : 76 W 52' 15"

Master List Status : C (A = Publicly funded or recalcitrant RP funding
B = Potential Master List site
C = Not publicly funded)

WASTE CHARACTERISTICS

Individual Waste Characteristic Scores:

Data Quality

Toxicity and Persistence : 15

A

Waste Quantity : 1

C

Containment : 3

A

EXPOSURE POTENTIAL

Population Density/Sensitive Environment : 2

Individual Exposure Media Scores: Observed? (Y/N) Data Quality

Groundwater : 2

Y

A

Surface Water : 2

N

C

Air : 0

N

C

Soil : 3

Y

C

Fire/Explosion : 0

N

C

Direct Contact : 0

N

C

TOTAL SCORE = 11.5

Comments on this site: LAMPBLACK Resid
Were / had filled on site and considered non-hazardous

Site remediation activities:

Is there a partial remedial action that
should occur at this site on an immediate basis? No

Has there been a prior remedial action
that addresses the problems evaluated? No

Is this an operating facility? Yes

Is the owner known? Yes

If not, does a PRP exist? _____

Is public funding anticipated to achieve cleanup? _____

What program currently has the lead for this site?

DHSM _____ BFO _____ RCRA _____ ECRA _____
SW Eng. _____ BPA _____ Emerg. Resp. _____ NJPDES _____
EPA _____ BCM _____ DWR Enf. _____ DEC Enf. _____
Other (Specify) _____

If in a regulatory program, what status is the permit?

Pre-application _____ Application _____
Issued _____ Other (specify) _____

Site assignment:

(Program options: DHSM, BFO, BCM,
RCRA, ECRA, SW ENG., BSA, ER, NJPDES,
EPA, DWR ENF., DEC ENF. or OTHER.)

Site status:

Date: 10/9/89 Evaluator: FRANK SOURCE JR.

Preliminary

Facility Name: MONSANTO INDUSTRIAL CHEMICAL CO.

Location: 15 - Pier St CAMDEN CAMDEN County

EPA Region: _____

Person(s) in Charge of the Facility: _____

Name of Reviewer: Frank Soto Jr Date: 10/27/88

General Description of the Facility:

(For example: landfill, surface impoundment, piles, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

LAMPBLACK WASHED UP LANDFILLED ON SITE

The land fill is capped and unlined.

Scores: $s_M = 436$ ($s_{gw} = 754$ $s_{sw} = 0$ $s_a = 0$)

$s_{pz} =$

$s_{dc} =$

GROUND WATER ROUTE WORK SHEET

| Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. (Section) |
|---|---|-----------------|-------|---------------|-------------------|
| 1 Observed Release | 0 45 | 1 | 45 | 45 | 3.1 |
| If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2. | | | | | |
| 2 Route Characteristics | | | | | |
| Depth to Aquifer of Concern | 0 1 2 3 | 2 | 5 | | 3.2 |
| Net Precipitation | 0 1 2 3 | 1 | 3 | | |
| Permeability of the Unsaturated Zone | 0 1 2 3 | 1 | 3 | | |
| Physical State | 0 1 2 3 | 1 | 3 | | |
| Total Route Characteristics Score | | | | | |
| 3 Containment | 0 1 2 3 | 1 | 3 | 3 | 3.3 |
| 4 Waste Characteristics | | | | | |
| Toxicity/Persistence | 0 3 5 9 12 15 18 | 1 | 15 | 18 | 3.4 |
| Hazardous Waste Quantity | 0 1 2 3 4 5 6 7 8 | 1 | 1 | 8 | |
| Total Waste Characteristics Score | | | | | |
| 5 Targets | | | | | 3.5 |
| Ground Water Use | 0 1 2 3 | 3 | 6 | 9 | |
| Distance to Nearest Well/Population Served | 0 4 8 10 12 16 18 20 24 30 32 35 40 | 1 | 0 | 40 | |
| Total Targets Score | | | | | |
| 6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5 | | | 4620 | 57,330 | |
| 7 Divide line 6 by 57,330 and multiply by 100 | S _{gw} = 7.54 | | | | |

SURFACE WATER ROUTE WORK SHEET

| Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. (Section) |
|---|---|-----------------|-------|---------------|-------------------|
| 1 Observed Release | 0 45 | 1 | C | 45 | 4.1 |
| If observed release is given a value of 45, proceed to line 4 . If observed release is given a value of 0, proceed to line 2 . | | | | | |
| 2 Route Characteristics | | | | | 4.2 |
| Facility Slope and Intervening Terrain | 0 1 2 3 | 1 | 0 | 3 | |
| 1-yr. 24-hr. Rainfall | 0 1 2 3 | 1 | 2 | 3 | |
| Distance to Nearest Surface Water | 0 1 2 3 | 2 | 6 | 8 | |
| Physical State | 0 1 2 3 | 1 | 2 | 3 | |
| Total Route Characteristics Score | | | 10 | 15 | |
| 3 Containment | 0 1 2 3 | 1 | 0 | 3 | 4.3 |
| 4 Waste Characteristics | | | | | 4.4 |
| Toxicity/Persistence | 0 3 6 9 12 15 18 | 1 | 15 | 18 | |
| Hazardous Waste Quantity | 0 1 2 3 4 5 6 7 8 | 1 | 1 | 8 | |
| Total Waste Characteristics Score | | | 16 | 26 | |
| 5 Targets | | | | | 4.5 |
| Surface Water Use | 0 1 2 3 | 3 | 6 | 9 | |
| Distance to a Sensitive Environment | 0 1 2 3 | 2 | 0 | 8 | |
| Population Served/Distance to Water Intake Downstream | 0 4 8 8 10 12 16 18 20 24 30 32 35 40 | 1 | 0 | 40 | |
| Total Targets Score | | | 6 | 55 | |
| 6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5 | | | | 54.350 | |
| 7 Divide line 6 by 54.350 and multiply by 100 $S_{sw} =$ | | | | 54.350 | |

AIR ROUTE WORK SHEET

| Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. (Section) | | | | | | | | | | | | |
|---|---------------------------------|-----------------|-------|---------------|-------------------|---------------------------------|---------------------------------|---|----|-----------------------------------|---------|---|---|--------------------------|-------------------|---|---|
| 1 Observed Release | 0 45 | 1 | (0) | 45 | 5.1 | | | | | | | | | | | | |
| Date and Location: | | | | | | | | | | | | | | | | | |
| Sampling Protocol: | | | | | | | | | | | | | | | | | |
| If line 1 is 0, the S = 0. Enter on line 5 . If line 1 is 45, then proceed to line 2 . | | | | | | | | | | | | | | | | | |
| 2 Waste Characteristics 5.2 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Reactivity and Incompatibility</td> <td style="width: 30%; text-align: center;">0 1 2 3</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">3</td> </tr> <tr> <td>Toxicity</td> <td style="text-align: center;">0 1 2 3</td> <td style="text-align: center;">3</td> <td style="text-align: center;">9</td> </tr> <tr> <td>Hazardous Waste Quantity</td> <td style="text-align: center;">0 1 2 3 4 5 6 7 8</td> <td style="text-align: center;">1</td> <td style="text-align: center;">8</td> </tr> </table> | | | | | | Reactivity and Incompatibility | 0 1 2 3 | 1 | 3 | Toxicity | 0 1 2 3 | 3 | 9 | Hazardous Waste Quantity | 0 1 2 3 4 5 6 7 8 | 1 | 8 |
| Reactivity and Incompatibility | 0 1 2 3 | 1 | 3 | | | | | | | | | | | | | | |
| Toxicity | 0 1 2 3 | 3 | 9 | | | | | | | | | | | | | | |
| Hazardous Waste Quantity | 0 1 2 3 4 5 6 7 8 | 1 | 8 | | | | | | | | | | | | | | |
| Total Waste Characteristics Score 20 | | | | | | | | | | | | | | | | | |
| 3 Targets 5.3 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Population Within 4-Mile Radius</td> <td style="width: 30%; text-align: center;">{ 0 9 12 15 18 21 24 27 30 }</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">30</td> </tr> <tr> <td>Distance to Sensitive Environment</td> <td style="text-align: center;">0 1 2 3</td> <td style="text-align: center;">2</td> <td style="text-align: center;">6</td> </tr> <tr> <td>Land Use</td> <td style="text-align: center;">0 1 2 3</td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> </tr> </table> | | | | | | Population Within 4-Mile Radius | { 0 9 12 15 18 21 24 27 30 } | 1 | 30 | Distance to Sensitive Environment | 0 1 2 3 | 2 | 6 | Land Use | 0 1 2 3 | 1 | 3 |
| Population Within 4-Mile Radius | { 0 9 12 15 18 21 24 27 30 } | 1 | 30 | | | | | | | | | | | | | | |
| Distance to Sensitive Environment | 0 1 2 3 | 2 | 6 | | | | | | | | | | | | | | |
| Land Use | 0 1 2 3 | 1 | 3 | | | | | | | | | | | | | | |
| Total Targets Score 39 | | | | | | | | | | | | | | | | | |
| 4 Multiply 1 x 2 x 3 35,100 | | | | | | | | | | | | | | | | | |
| 5 Divide line 4 by 35,100 and multiply by 100 S _a = | | | | | | | | | | | | | | | | | |

| | s | s^2 |
|---|--------------|-------|
| Groundwater Route Score (S_{gw}) | 7.54 | 56.8 |
| Surface Water Route Score (S_{sw}) | 0 | 0 |
| Air Route Score (S_a) | 0 | 0 |
| $S_{gw}^2 + S_{sw}^2 + S_a^2$ | / | |
| $\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$ | / | |
| $\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73$ | / | |
| | $s_m = 4.36$ | |

WORKSHEET FOR COMPUTING s_m

Projected

Facility Name: MONSANTO INDUSTRIAL CHEMICAL CO.

Location: 150 Pine St. Cedar Rapids, Iowa

EPA Region: _____

Person(s) in Charge of the Facility: _____

Name of Reviewer: Frank Sore Date: 10/31/88

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Landfills which have been landfilled on site
The landfill is capped and monitored

Scores: $s_M = 9.93$ ($s_{gw} = 7.54$ $s_{sw} = 7.54$ $s_a = 17.2$)

$s_{EZ} =$

$s_{DC} =$

GROUND WATER ROUTE WORK SHEET

| Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. (Section) |
|---|---|-----------------|-------|---------------|-------------------|
| 1 Observed Release | 0 45 | 1 | 45 | 45 | 3.1 |
| If observed release is given a score of 45, proceed to line 3 . If observed release is given a score of 0, proceed to line 2 . | | | | | |
| 2 Route Characteristics | | | | | 3.2 |
| Depth to Aquifer of Concern | 0 1 2 3 | 2 | | 5 | |
| Net Precipitation | 0 1 2 3 | 1 | | 3 | |
| Permeability of the Unsaturated Zone | 0 1 2 3 | 1 | | 3 | |
| Physical State | 0 1 2 3 | 1 | | 3 | |
| Total Route Characteristics Score | | | | 15 | |
| 3 Containment | 0 1 2 3 | 1 | | 3 | 3.3 |
| 4 Waste Characteristics | | | | | 3.4 |
| Toxicity/Persistence | 0 3 6 9 12 15 18 | 1 | 15 | 18 | |
| Hazardous Waste Quantity | 0 1 2 3 4 5 6 7 8 | 1 | 7 | 9 | |
| Total Waste Characteristics Score | | | | 16 | 29 |
| 5 Targets | | | | | 3.5 |
| Ground Water Use | 0 1 2 3 | 3 | 6 | 9 | |
| Distance to Nearest Well/Population Served | 0 4 8 10 12 16 18 20 24 30 32 35 40 | 1 | 0 | 40 | |
| Total Targets Score | | | | 6 | 49 |
| 6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5 | | | | 7.54 | 57.330 |
| 7 Divide line 6 by 57.330 and multiply by 100 | S _{gw} = | 7.54 | | | |

SURFACE WATER ROUTE WORK SHEET

| Rating Factor | Assigned Value (Circle One) | | | | Mult- plier | Score | Max. Score | Ref. (Section) | | | | |
|---|--------------------------------|----|----|----|----------------|-------|------------------------|-------------------|---|---|---|----|
| 1 Observed Release | 0 | 45 | 1 | 45 | 1 | 45 | 45 | 4.1 | | | | |
| If observed release is given a value of 45, proceed to line 4 . If observed release is given a value of 0, proceed to line 2 . | | | | | | | | | | | | |
| 2 Route Characteristics | | | | | | | | 4.2 | | | | |
| Facility Slope and Intervening Terrain | 0 | 1 | 2 | 3 | 1 | | 3 | | | | | |
| 1-yr. 24-hr. Rainfall | 0 | 1 | 2 | 3 | 1 | | 3 | | | | | |
| Distance to Nearest Surface Water | 0 | 1 | 2 | 3 | 2 | | 6 | | | | | |
| Physical State | 0 | 1 | 2 | 3 | 1 | | 3 | | | | | |
| Total Route Characteristics Score | | | | | | | 15 | | | | | |
| 3 Containment | 0 | 1 | 2 | 3 | 1 | | 3 | 4.3 | | | | |
| 4 Waste Characteristics | | | | | | | | 4.4 | | | | |
| Toxicity/Persistence | 0 | 3 | 6 | 9 | 12 | 15 | 18 | | | | | |
| Hazardous Waste Quantity | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 1 | 18 |
| Total Waste Characteristics Score | | | | | | | 16 | 26 | | | | |
| 5 Targets | | | | | | | | 4.5 | | | | |
| Surface Water Use | 0 | 1 | 2 | 3 | 3 | 4 | 9 | | | | | |
| Distance to a Sensitive Environment | 0 | 1 | 2 | 3 | 2 | 3 | 6 | | | | | |
| Population Served/Distance to Water Intake Downstream | 0 | 4 | 8 | 8 | 10 | 10 | 40 | | | | | |
| | 12 | 16 | 18 | 20 | | | | | | | | |
| | 24 | 30 | 32 | 35 | 40 | | | | | | | |
| Total Targets Score | | | | | | | 4 | 55 | | | | |
| 6 If line 1 is 45, multiply 1 x 4 x 5 | | | | | | | | | | | | |
| If line 1 is 0, multiply 2 x 3 x 4 x 5 | | | | | | | 4350 | 64,350 | | | | |
| 7 Divide line 6 by 64,350 and multiply by 100. | | | | | | | S _{sw} = 7.54 | | | | | |

AIR ROUTE WORK SHEET

| Rating Factor | Assigned Value (Circle One) | Mul- tiplier | Score | Max. Score | Ref. (Section) |
|---|--------------------------------|-----------------|-------|---------------|-------------------|
| ① Observed Release | 0 45 | 1 | 45 | 45 | 5.1 |
| Date and Location: | | | | | |
| Sampling Protocol: | | | | | |
| If line ① is 0, the S = 0. Enter on line ③. If line ① is 45, then proceed to line ②. | | | | | |
| ② Waste Characteristics | | | | | 5.2 |
| Reactivity and Incompatibility | 0 ① 2 3 | 1 | 1 | 3 | |
| Toxicity | 0 1 2 ③ | 3 | 3 | 9 | |
| Hazardous Waste Quantity | 0 ① 2 3 4 5 6 7 8 | 1 | 1 | 3 | |
| Total Waste Characteristics Score 5 20 | | | | | |
| ③ Targets | | | | | 5.3 |
| Population Within 4-Mile Radius | 0 9 12 15 18 21 24 27 30 | 1 | 18 | 30 | |
| Distance to Sensitive Environment | ① 2 3 | 2 | 0 | 3 | |
| Land Use | 0 1 2 ③ | 1 | 3 | 3 | |
| Total Targets Score 71 39 | | | | | |
| ④ Multiply ① x ② x ③ | | | | 4705 | 35,100 |
| ⑤ Divide line ④ by 35,100 and multiply by 100 S ₃ = 13.46 | | | | | |

| | s | s^2 |
|---|-------|--------------|
| Groundwater Route Score (S_{gw}) | 7.54 | 56.86 |
| Surface Water Route Score (S_{sw}) | 7.54 | 56.86 |
| Air Route Score (S_a) | 13.46 | 181.17 |
| $S_{gw}^2 + S_{sw}^2 + S_a^2$ | | 294.89 |
| $\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$ | | 17.2 |
| $\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73$ | | $S_M = 9.93$ |

WORKSHEET FOR COMPUTING S_M

BUREAU OF PLANNING AND ASSESSMENT
FILE/DATA CHECK SHEET
Dev...ed by NJDEP DHWM/BPA 1/ 988

| Agency | Phone No. | Contact | Date | File Y/N | Reviewed |
|---|----------------------------------|--------------|------|----------|----------|
| N.J. DEP | | | | | |
| Div. Water Resources | | | | | |
| A. Central File | (609) 292-0400 | | | | |
| B. Regional Enforcement Office | 346-8032 | | | | No |
| C. Geological Survey | (609) 292-0668 | Pete Aguirre | | yes | |
| D. Water Allocation (well logs) (radius program) | (609) 984-6831 (609) 292-2957 | | | | |
| E. Groundwater Quality Mgt. | (609) 292-0424 | | | | No |
| F. Indust. Waste Mgt. (NJPDES permits) | (609) 292-4860 | | | | No |
| G. Other | | | | | |
| Div. Waste Management | | | | | |
| A. Regional Enforcement Office | 346-8000 | | | | yes |
| B. Case Management | (609) 633-0701 | | | | No |
| C. ECRA | (609) 633-7141 | | | | No |
| D. Haz. Waste Eng. | (609) 292-3880 | JCE | | | yes |
| E. Other | 4-27111 | | | | No |
| Div. Env. Quality | | | | | |
| A. Reg. Air Pollution Control Office | 346-8071 | Jules Timay | | yes | |
| B. Office of Quality Assurance | (609) 292-3950 | | | | |
| C. Other | | | | | |
| Div. Solid Waste Mgt. | 4-3556 | | | | No |
| A. File Room | (609) 292-0112 | | | | |
| B. Enforcement Office | (609) 426-0791 | | | | |
| C. Solid Waste Eng. | (609) 292-7875 | | | | |

| Agency | Phone No. | Contact | Date | File Y/N Reviewed |
|--|-------------------------|-------------|------|----------------------|
| Div. Hazardous Site Mitigation | | | | |
| A. Central File | (609) 292-3203 | | | |
| B. B.of Env.Evaluation and Risk Assmnt. | (609) 633-6801 47135 | NOREEN | | yes |
| C. Site Management | (609) 984-2900 | | | N/C |
| D. Other | | | | |
| Other N.J. DEP | | | | |
| A. ORS (DEP Attorneys) | (609) 292-5697 | | | |
| B. Div.of Law (Att.Gen.Office) | (609) 984-3900 | | | |
| C. Office of Science and Research | (609) 984-6070 | | | |
| D. Div.of Fish & Game | | | | |
| E. Right to Know | (609) 292-6714 | | | |
| F. Off.of Env.Anal. (aerial photos) | (609) 292-8206 | | | |
| F. Other | | | | |
| N.J. Dept.of Health | | | | |
| N.J. State Library | (609) 292-6220 | | | |
| U.S. EPA | | | | |
| A. Surveillance and Monitoring Branch | (201) 321-6686 | | | |
| B. Response and Prevention Branch | (201) 321-6658 | | | |
| C. Other | | | | |
| Local Authorities | | | | |
| A. Health Officer | 757-3600 | Bob LENTINE | | N/C |
| B. Tax Assessor or Town Clerk | 757-7017 | | | YES |
| C. Other (Fire,Police, Public Works,etc..) | | | | |
| Other Agency | | | | |



SHEET 31
TOPOGRAPHIC SERIES

LEGEND FOR ATLAS SHEET

- △ INDUSTRIAL WELL, YIELD OVER 70 GALLONS PER MINUTE
- PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE
- ⊕ UNSUCCESSFUL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
- UNSUCCESSFUL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
- † NO TEST - NO DATA ON YIELD

— FAULT (DASHED WHERE INFERRED)

— — CONTACT (DASHED WHERE INFERRED)

PIEDMONT

COASTAL PLAIN

PHYSIOGRAPHIC PROVINCE BOUNDARY

— — — WATER SUPPLY TRANSMISSION LINE

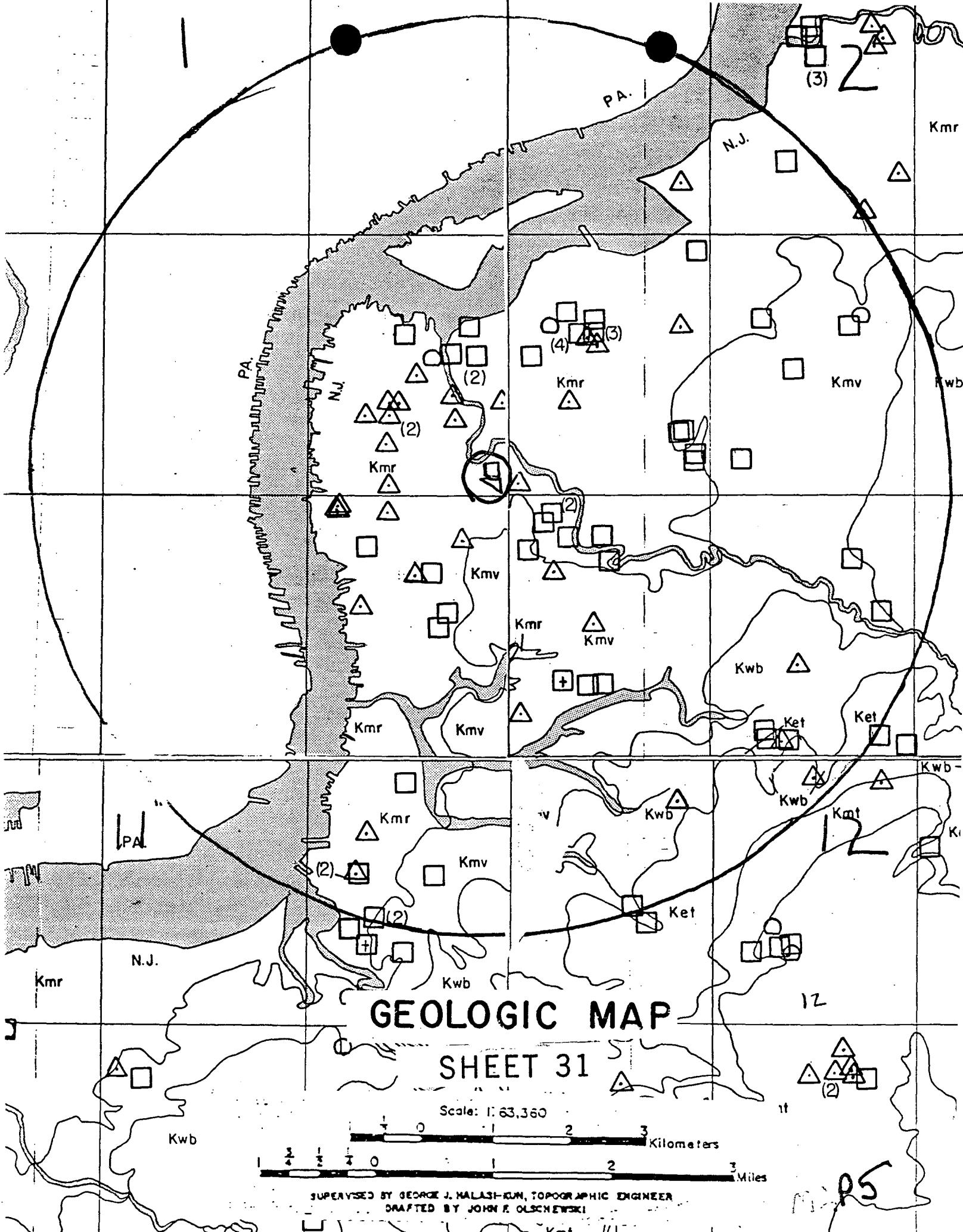
SEDIMENTARY ROCKS

TERTIARY

| | |
|-----|--------------------|
| Tbh | BEACON HILL GRAVEL |
| Tch | COHANSEY SAND |
| Tkw | KIRKWOOD SAND |
| Tmq | MANASQUAN MARL |
| Tvt | VINCENTOWN SAND |
| Thf | HORNERSTOWN MARL |

CRETACEOUS

| | |
|------|---------------------------------|
| Krb | RED BANK |
| Krbt | RED BANK (TRANSITIONAL UNIT) |
| Krbg | RED BANK (GLAUCONITE SAND UNIT) |
| Kns | NAVESINK MARL |
| Kml | MOUNT LAUREL SAND |
| Kw | WENONAH SAND |
| Kmt | MARSHALLTOWN FORMATION |
| Ket | ENGLISHTOWN SAND |
| Kwb | WOODBURY CLAY |
| Kmv | MERCHANTVILLE CLAY |
| Kmr | MAGOOTHY AND RARITAN FORMATIONS |
| Km | MAGOOTHY FORMATION |
| Kr | RARITAN FORMATION |



SUPERVISED BY GEORGE J. HALASH-KUN, TOPOGRAPHIC ENGINEER
DRAFTED BY JOHN F. OLSCHEWERKI

LEGEND

WATER SUPPLY

- [Dotted Box] AREA SERVED BY PRIVATE WATER SERVICE COMPANIES
- [Solid Box] AREA SERVED BY REGIONALLY OWNED WATER SERVICE COMPANIES
- [Cross-hatched Box] AREA SERVED BY MUNICIPALLY OWNED WATER SERVICE COMPANIES
- [White Box] AREA NOT PRESENTLY SERVED BY WATER SERVICE
- [Square] PUBLIC SUPPLY WELLS
- [Circle] SURFACE WATER INTAKE
- W— MAJOR WATER MAINS

SEWAGE, LANDFILL

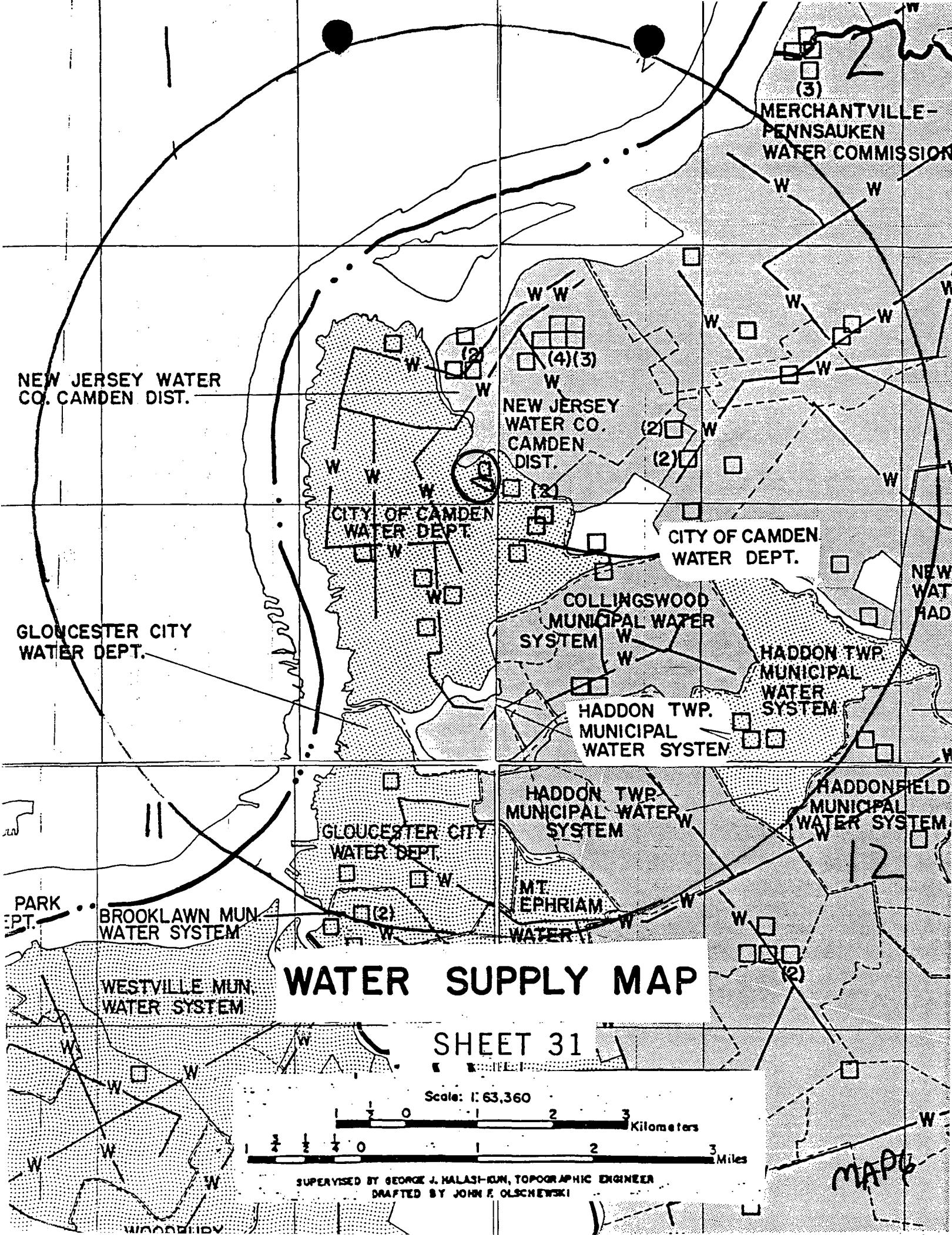
- [Dotted Box] AREA SERVED BY PUBLIC SEWAGE SERVICE
- [White Box] AREA NOT PRESENTLY SERVED BY SEWAGE SERVICE
- [Cross-hatched Box] SANITARY LANDFILLS
- (Circle) SEWAGE TREATMENT PLANTS (CAPACITY <0.3mgd)
- (Filled Circle) SEWAGE TREATMENT PLANTS (CAPACITY ≥0.3mgd)
- S— MAJOR SEWAGE TRANSMISSION LINES

DRAINAGE BASIN

- — — DRAINAGE BASIN BOUNDARY
- — — RIVER BASIN BOUNDARY
- HUDSON DRAINAGE BASIN NAME
- ~~~~ STREAMS AND RIVERS
- [Dotted Box] FLOOD PRONE AREAS

POPULATION

- — — COUNTY BOUNDARY
- - - MUNICIPAL BOUNDARY
- () POPULATION DENSITY IN PERSONS PER SQUARE MILE
- [Square] AREA IN SQUARE MILES
- % PERCENT AREA OF MUNICIPALITY ON BLOCK
- — MARKET ROADS
- [Dotted Box] BUILT UP AREAS
- . — STATE BOUNDARY



A. Camden, Philadelphia

B. Delaware River-Newton Creek, Coopers Creek

C. 2. Map No. Location Period of Record
449 Cooper River at Camden 1967-

3. 335 Newton Creek, North Branch, Woodlynne 1965

D. Magothy and Raritan Formations (Kmr), Merchantville Clay (Kmv)

E. 1. Physiographic Province: Coastal Plain

Subdivision: Inner Plain

Major Topographic Features: Delaware River, Clay and Marl Region

Elevations (ft above sea level): hills 45, valleys 0

Relief (ft.): 45

2. a. Normal Year: 43"

Dry Year: 35"

Wet Year: 48"

b. January: 33°F

July: 76°F

c. 250 days. Last killing frost: 4/15; first killing frost: 11/5

G. Corps of Engineers (U.S.Army) - Petty Island

H. Camden:

Walt Whitman House

Benjamin Cooper House

Joseph Cooper House

Pomona Hall

Taylor House

Newton Friends Meeting House

Charles S. Boyer Memorial Hall

I. Water Well Records

| <u>Location</u> | <u>Owner</u> | <u>Year Drilled</u> | <u>Screen Setting or Depth of Casing</u> | <u>Total Depth</u> | <u>g/m Yield</u> | <u>Formation</u> |
|-----------------|--------------------------------|---------------------|--|--------------------|------------------|------------------|
| • 31-01-652 | City of Camden, #5 | 1963 | 134-169 | 171 | 1000 | Kmr |
| • 31-01-655 | H. Kohnstamm & Co., Inc. | 1954 | 116-136 | 136 | 150 | " |
| • 31-01-656 | U.S. Gasket, #1 | 1953 | 130-141 | 153 | 100 | " |
| • 31-01-657 | Savar Amusement Corp. | 1950 | 82-113 | 113 | 500* | Kr |
| • 31-01-657 | Stanley Corp. of America | 1949 | 118-138 | 150 | 200* | " |
| • 31-01-662 | City of Camden, #15 | 1954 | 116-136 | 155 | 1000 | " |
| • 31-01-664 | Camden Water Dept., #1-A | 1953 | 135-170 | 175 | 1000 | " |
| • 31-01-665 | City of Camden, Test Well #1 | 1950 | 129-150 | 166 | 300 | " |
| • 31-01-665 | " #14 | 1953 | 105-145 | 164 | 1000 | " |
| • 31-01-667 | Sungil Co. | 1947 | 147-157 | 157 | 100 | " |
| • 31-01-669 | Paris Produce Co. | 1964 | 150-166 | 167 | 100 | Kmr |
| • 31-01-673 | Lintonia Pure Food Shop, Inc. | 1950 | 102-123 | 128 | 315* | " |
| • 31-01-681 | Savar Amusement Corp., #2 | 1950 | 110-130 | 130 | 500* | Kr |
| • 31-01-681 | Camden Trust Co. | 1949 | 93-123 | 127 | 430* | " |
| • 31-01-684 | Stanley Corp. of America | 1949 | 110-130 | 152 | 600* | " |
| • 31-01-687 | Savar Amusement Corp. | 1949 | 114-134 | 138 | 600 | " |
| • 31-01-691 | Baltimore Markets, #2 | 1950 | 138-170 | 170 | 1200* | " |
| • 31-01-912 | Public Service Elec. & Gas Co. | 1950 | 120-146 | 149 | 600 | " |
| • 31-01-912 | " | 1954 | 113-145 | 145 | 350 | " |
| • 31-01-916 | City of Camden, #2-B | 1953 | 111-136 | 204 | 1000 | " |
| • 31-01-921 | Stanley Corp. of America | 1949 | 86-150 | 163 | 250* | " |
| • 31-01-923 | Samuel Adelson | 1952 | 92-102 | 102 | 200 | " |
| • 31-01-929 | Camden Water Dept. | 1948 | 111-136 | 165 | 1012 | " |
| • 31-01-934 | Liberty Theatre #1 | 1949 | 112-130 | 130 | 150 | " |
| • 31-01-943 | MacAndrews & Forbes Co. | 1951 | 82-103 | 114 | 350 | " |
| • 31-01-956 | Camden Water Dept., #7 | 1966 | 123-163 | 167 | 1023 | " |
| • 31-01-961 | City of Camden, #11 | 1942 | 124-154 | 166 | 1005 | " |

*Indicates use as a recharge well.

J. Geodetic Control Survey monuments described in
Index Map 48; Adjacent Index Maps 44,54

• Indicates wells within four mile radius of site

A. Camden

B. Delaware River-Baldwin Run, Coopers Run, Newton Creek, Pennsauken

C. 1. Cherry Hill - Non-recording temperature and precipitation gauges

| 2. Map No. | Location | Period of Record |
|------------|--|------------------|
| 194 | South Branch Pennsauken Creek at Cherry Hill | 1967- |
| 196 | Cooper River at Haddonfield | 1963- |
| 447 | North Branch Cooper River at Marlton | 1964- |
| 448 | North Branch Cooper River at Ellisburg | 1964- |
| 449 | Cooper River at Camden | 1964- |
| 450 | Newton Creek at Collingswood | 1964- |
| 3. | 196 Cooper River at Haddonfield | 1965- |
| | 334 Newton Creek at West Collingswood | |
| | 335 North Branch Newton Creek at Woodlyne | |

Water Quality Standards: (explained in Atlas Sheet description) FW3, TW2

D. Mount Laurel and Wenonah Sands (Kmw), Marshalltown Formation (Kmt), Englishtown Sand (Ket), Woodbury Clay (Kwb), Merchantville Clay (Kmv), Magothy and Raritan Formations (Kmr)

E. 1. Physiographic Province: Coastal Plain

Subdivision: Inner Plain

Major Topographic Features: Delaware River, Clay and Marl Region

Elevations (ft. above sea level): hills 100, valleys 0

Relief (ft.): 100

2. a. Normal Year: 43"

Dry Year: 36"

Wet Year: 48"

b. January: 33°F

July: 76°F

c. 249 days. Last killing frost: 4/15; first killing frost: 10/30

F. Camden County:

Cooper River Park

G. Corps of Engineers (U.S.Army) - Petty Island

H. Griffin Morgan House, Pennsauken

1743 Samuel Cole House, Cherry Hill

I. Water Well Records

| <u>Location</u> | <u>Owner</u> | <u>Year Drilled</u> | <u>Screen Setting or Depth of Casing</u> | <u>Total Depth</u> | <u>g/m Yield</u> | <u>Formation</u> |
|-----------------|--|---------------------|--|--------------------|------------------|------------------|
| ● 31-02-195 | Paragon Oil Co., #1 | 1961 | 51-61 | 61 | 100 | Kmr |
| 31-02-225 | City of Camden, #4-A | 1960 | 95-130 | 134 | 1585 | " |
| 31-02-227 | " #5-NA | 1960 | 79-114 | 121 | 1529 | " |
| 31-02-228 | " #3 | 1953 | 73-107 | 136 | 1000 | " |
| 31-02-228 | " #8 | 1953 | 89-124 | 141 | 1000 | " |
| 31-02-228 | " #10 | 1960 | 75-115 | 118 | 1529 | " |
| 31-02-235 | Kingston Trap Rock | 1955 | 55-65 | 68 | 125 | " |
| 31-02-238 | " #2 | 1966 | 115-123 | 127 | 200 | " |
| 31-02-238 | Atlantic Blue Diamond Corp. | 1958 | 100-110 | 110 | 180 | " |
| ● 31-02-281 | City of Camden | 1975 | 140-180 | 190 | 1200 | " |
| 31-02-293 | Meadow Brook Swim Club | 1963 | 97-107 | 107 | 200 | " |
| ● 31-02-297 | H&H Industries | 1959 | 71-81 | 81 | 100 | " |
| 31-02-331 | Riverton-Palmyra Water Co. #16 | 1965 | 144-176 | 192 | 1034 | " |
| 31-02-331 | " #13 | 1963 | 166-197 | 206 | 610 | " |
| 31-02-361 | Delaware Valley Water Co., #28 | 1969 | 225-260 | 264 | 1200 | " |
| 31-02-363 | " #31 | 1970 | 215-261 | 267 | 1002 | " |
| ● 31-02-419 | New Jersey Water Co., #50 | 1958 | 139-170 | 176 | 1000 | " |
| ● 31-02-427 | " #25 | 1961 | 305-367 | 399 | 1050 | " |
| ● 31-02-433 | Merchantville-Pennsauken Water Co. | 1968 | 109-139 | 139 | 882 | " |
| ● 31-02-442 | City of Camden, Test #6 | 1954 | 153-175 | 181 | 210 | Kr |
| ● 31-02-443 | New Jersey Water Co., #44 | 1950 | 154-186 | 187 | 1400 | Kmr |
| ● 31-02-443 | " #45 | 1950 | 141-173 | 173 | 955 | " |
| ● 31-02-443 | " #46 | 1950 | 148-178 | 179 | 1400 | " |
| ● 31-02-443 | " #48 | 1954 | 122-164 | 171 | 1412 | " |
| ● 31-02-444 | City of Camden, #16 | 1954 | 149-179 | 181 | 1000 | " |
| ● 31-02-449 | Savar Amusement Corp. | 1949 | 169-189 | 189 | 450 | " |
| ● 31-02-451 | H. Kohnstamm & Co., Inc., #5-A | 1967 | 163-184 | 194 | 200 | " |
| ● 31-02-451 | " | 1959 | 133-158 | 158 | 250 | " |
| ● 31-02-451 | New Jersey Water Co., #52 | 1965 | 147-198 | 198 | 1404 | " |
| ● 31-02-451 | " #38 | 1933 | 126-162 | 166 | 846 | " |
| ● 31-02-451 | " #47 | 1953 | 159-175 | 177 | 1012 | " |
| ● 31-02-462 | Parks Dairies | 1958 | 154-170 | 172 | 200 | " |
| ● 31-02-477 | Camden Co. Park Commission | 1950 | 186-217 | 217 | 1200 | " |
| ● 31-02-492 | Merchantville-Pennsauken Water Comm., #9 | 1956 | 107-137 | 141 | 875 | " |
| ● 31-02-492 | " #10 | 1963 | 223-258 | 262 | 1000 | " |
| ● 31-02-496 | " #2-A | 1965 | 110-140 | 143 | 900 | " |
| ● 31-02-496 | " #1-R | 1971 | 132-152 | 159 | 875 | " |
| ● 31-02-519 | " Test Well | 1963 | 118-138 | 160 | 400 | " |
| ● 31-02-537 | " Test Well #1 | 1956 | 247-268 | 293 | 317 | " |
| ● 31-02-554 | " #2 | 1962 | 245-285 | 300 | 1040 | " |
| ● 31-02-561 | " #6 | 1957 | 242-277 | 283 | 1020 | " |
| ● 31-02-575 | Camden Co. Board of Ed. | 1967 | 322-401 | 401 | 320 | " |
| ● 31-02-621 | Merchantville-Pennsauken Water Comm., #7 | 1958 | 240-275 | 330 | 1000 | " |
| 31-02-692 | " #8 | 1960 | 207-237 | 240 | 875 | " |
| 31-02-694 | New Jersey Water Co., #22 | 1960 | 371-453 | 497 | 1067 | " |
| 31-02-697 | " #24 | 1961 | 112-167 | 186 | 1051 | " |
| 31-02-699 | " | 1967 | 376-427 | 430 | 1030 | " |

| | | | | | | | |
|-------------|------------------------------|------|---------|---------|------|------|-----|
| • 31-02-712 | City of Camden, Test #5 | 1953 | 205-225 | 277 | 280 | Kmr | |
| • 31-02-712 | " | 1953 | 185-225 | 243 | 1000 | " | |
| • 31-02-712 | " | #17 | 1954 | 230-265 | 274 | 1000 | |
| • 31-02-714 | " | | 1953 | 90-115 | 123 | 1000 | |
| • 31-02-716 | Our Lady of Lourdes Hospital | 1963 | 237-257 | 261 | 275 | " | |
| • 31-02-718 | A. N. Stoll Werck, Inc. | 1950 | 111-131 | 136 | 210 | " | |
| • 31-02-725 | Boro.of Collingswood, #3-R | 1960 | 257-287 | 294 | 1000 | Kr | |
| • 31-02-728 | " | #2-B | 1960 | 248-278 | 308 | 1000 | Kmr |
| • 31-02-754 | Friendship Dairy, #1 | 1955 | 143-164 | 164 | 100 | " | |
| • 31-02-773 | Boro.of Collingswood,Test #1 | 1964 | 307-333 | 370 | - | " | |
| • 31-02-774 | A.M.Ellis Theatres,Inc.,#3 | 1961 | 83-103 | 115 | 250* | " | |
| • 31-02-781 | Boro.of Collingswood, "B" | 1965 | 224-313 | 336 | 1034 | " | |
| • 31-02-782 | " | "A" | 1965 | 219-312 | 331 | 1034 | |
| • 31-02-837 | New Jersey National Guard | 1956 | 96-111 | 111 | 150 | " | |
| • 31-02-857 | Morgan Brothers, Inc. | 1967 | 431-451 | 451 | 302 | " | |
| • 31-02-865 | Joe's Trailer Camp | 1955 | 112-122 | 122 | 70 | " | |
| • 31-02-879 | Twp. of Haddon, #4 | 1965 | 417-448 | 455 | 1000 | " | |
| • 31-02-879 | " | #3 | 1956 | 432-469 | 490 | 800 | |
| • 31-02-887 | " Bd.of Ed.,#1 | 1966 | 142-162 | 165 | 200 | " | |
| • 31-02-887 | " New #1 | 1968 | 401-479 | 481 | 870 | " | |
| • 31-02-898 | Boro.of Haddonfield,Test #1 | 1965 | 490-510 | 510 | 350 | " | |
| 31-02-899 | " | 1967 | 307-372 | 380 | 1029 | " | |
| 31-02-982 | New Jersey Water Co.,#23 | 1960 | 321-378 | 405 | 1001 | " | |
| 31-02-982 | " | #13 | 1953 | 491-527 | 527 | 1200 | |
| 31-02-986 | Hunt Tract Swimming Club | 1957 | 232-243 | 243 | 90 | " | |

*Indicates use as a recharge well.

J. Geodetic Control Survey monuments described in
Index Map 48; Adjacent Index Maps 44,49,54,55

BLOCK #31-11

A. Camden, Philadelphia, Runnemede, Woodbury

B. Delaware River-Big Timber Creek, Mantua Creek, Newton Creek, Woodbury Creek

C. 3. Map No. Location Period of Record
333 Woodbury Creek at Woodbury 1965-

Water Quality Standards: (explained in Atlas Sheet description)
FW2, TW1 except where classified FW3

D. Kirkwood Sand (Tkw), Hornerstown Marl (Tht), Navesink Marl (Kns),
Mount Laurel and Wenonah Sands (Kmw), Marshalltown Formation (Kmt),
Englishtown Sand (Ket), Woodbury Clay (Kwb), Merchantville Clay (Kmv),
Magothy and Raritan Formations (Kmr)

E. 1. Physiographic Province: Coastal Plain

Subdivision: Inner Plain

Major Topographic Features: Delaware River, Clay and Marl Region

Elevations (ft. above sea level): hills 100, valleys 0

Relief (ft.): 100

2. a. Normal Year: 44"

Dry Year: 34"

Wet Year: 51"

b. January: 33°F

July: 76°F

c. 250 days. Last killing frost: 4/20; first killing frost: 10/30

H. Red Bank Battlefield, National Park

James Whitall House, National Park

Woodbury Friends Meeting House, Woodbury

I. Water Well Records

| <u>Location</u> | <u>Owner</u> | <u>Year Drilled</u> | <u>Screen Setting or Depth of Casing</u> | <u>Total Depth</u> | <u>g/m Yield</u> | <u>Formation</u> |
|-----------------|--------------------------------|---------------------|--|--------------------|------------------|------------------|
| ● 31-11-319 | Atlantic Ice Mfg. Co. | 1962 | 205-240 | 242 | 200 | Kmr |
| ● 31-11-322 | City of Gloucester | 1965 | 225-265 | 270 | 1034 | " |
| ● 31-11-343 | " | 1961 | 221-261 | 280 | 1000 | " |
| ● 31-11-343 | New Jersey Zinc Co. | 1958 | 223-253 | 275 | 600 | " |
| ● 31-11-343 | " | 1958 | 249-279 | 285 | 600 | " |
| 31-11-348 | Borough of Brooklawn | 1961 | 307-327 | 327 | 400 | " |
| ● 31-11-349 | " | 1927 | 101-141 | 152 | 225 | " |
| 31-11-349 | " | 1927 | 114-157 | 165 | 225 | " |
| ● 31-11-353 | City of Gloucester | 1958 | 161-185 | 188 | 500 | " |
| 31-11-373 | Borough of Brooklawn | 1969 | 288-321 | 324 | App. 300 | " |
| 31-11-378 | Borough of Westville | 1957 | 286-313 | 323 | 1205 | Kr |
| 31-11-382 | Borough of Bellmawr | 1956 | 334-359 | 423 | 800 | Kmr |
| 31-11-422 | Borough of National Park | 1950 | - | 87 | 175 | Qsd |
| 31-11-422 | " | 1956 | 241-282 | 307 | 636 | Kr |
| 31-11-448 | West Deptford Little League | 1958 | 62-72 | 72 | 100 | Qsd |
| 31-11-497 | Polyrez Co. | 1959 | 134-166 | 166 | 503 | Kmr |
| 31-11-514 | Texaco Co. | 1973 | 266-306 | 329 | 1001 | " |
| 31-11-515 | Twp. of West Deptford | 1961 | 307-353 | 363 | 752 | " |
| 31-11-565 | General Engines Co. | 1954 | 38-43 | 43 | 100 | Ket |
| 31-11-612 | Steinberger | 1959 | - | 170 | - | Km |
| 31-11-628 | Deptford Twp. | 1971 | 282-361 | 361 | 752 | Kmr |
| 31-11-659 | John G. Baleter | 1960 | - | 200 | - | Km |
| 31-11-671 | Child Care Center | 1967 | 216-236 | 294 | 100 | Kmr |
| 31-11-678 | Woodbury Asso. Market Co. | 1966 | 201-221 | 221 | 400 | " |
| 31-11-744 | Colonial Pipeline Co. | 1963 | 127-137 | 137 | 150 | Ket |
| 31-11-751 | Twp. of West Deptford | 1973 | 388-345 | 480 | 1012 | Kmr |
| 31-11-754 | " | 1972 | 392-412 | 412 | 151 | " |
| 31-11-759 | Greenfield Water Co. | 1963 | 241-288 | 336 | 608 | " |
| 31-11-818 | Lynn Const. Co. | 1959 | 153-169 | 172 | 100 | " |
| 31-11-822 | City of Woodbury | 1960 | 405-457 | 462 | 1016 | " |
| 31-11-824 | John Johanson | 1953 | - | 148 | - | " |
| 31-11-857 | Deptford Twp. Mun. Util. Auth. | 1956 | 252-273 | 400 | 503 | " |
| 31-11-913 | Albert Boginsky | 1958 | - | 152 | - | Ket |

J. Geodetic Control Survey monuments described in
Index Maps 48,54

A. Camden, Runnemede

B. Delaware River-Big Timber Creek, Coopers Creek, Newton Creek

C. 1. Audubon - Non-recording temperature and precipitation gauges

| 2. Map No. | Location | Period of Record |
|------------|--|------------------|
| 446 | Cooper River at Kirkwood | 1964- |
| 447 | North Branch Cooper River near Marlton | 1964- |
| 451 | South Branch Newton Creek at Haddon Heights | 1964- |
| 452 | South Branch Big Timber Creek at Blackwood | 1964- |
| 3. | 334 Newton Creek at West Collingswood | 1965- |
| | 336 South Branch Newton Creek at Mt. Ephriam | 1965- |
| | 337 Big Timber Creek at Chews Landing | 1965- |
| | 338 South Branch Big Timber Creek at Blackwood | 1965- |

Water Quality Standards: (explained in Atlas Sheet description) FW3

D. Kirkwood Sand (Tkw), Vincentown Sand (Tvt), Hornerstown Marl (Tht), Navesink Marl (Kns), Mount Laurel and Wenonah Sands (Kmw), Marshalltown Formation (Kmt), Englishtown Sand (Ket), Woodbury Clay (Kwb), Merchantville Formation (Kmr), Magothy and Raritan Formation (Kmr)

E. 1. Physiographic Province: Coastal Plain

Subdivision: Inner Plain, Outer Plain

Major Topographic Features: Clay and Marl Region, Pine Plains

Elevations (ft. above sea level): hills 140, valleys 0

Relief (ft.): 140

2. a. Normal Year: 44"

Dry Year: 35"

Wet Year: 51"

b. January: 33°F

July: 76°F

c. 249 days. Last killing frost: 4/20; first killing frost: 10/30

H. Whitman-Stafford House, Lindenwold (State owned)

Indian King Tavern, Haddonfield

Haddon Fortnightly, Haddonfield

Benjamin Clark House, Deptford

I. Water Well Records

| <u>Location</u> | <u>Owner</u> | <u>Year Drilled</u> | <u>Screen Setting or Depth of Casing</u> | <u>Total Depth</u> | <u>g/m Yield</u> | <u>Formation</u> |
|-----------------|---------------------------------------|---------------------|--|--------------------|------------------|------------------|
| ● 31-12-135 | Imperial Gold & Silver Kid Co. | 1948 | 140-170 | 170 | 250 | Kmr |
| ● 31-12-156 | New Jersey Zinc Co., #18 | 1958 | 144-191 | 201 | 708 | " |
| 31-12-167 | " #33 | 1967 | 422-484 | 500 | 850 | " |
| ● 31-12-222 | Green Valley Farms | 1965 | 195-215 | 227 | 151 | " |
| 31-12-232 | Haddon Ice & Coal Co. | 1957 | 190-221 | 225 | 360 | " |
| 31-12-249 | N. J. Water Co., #14 | 1954 | 506-598 | 606 | 1018 | " |
| 31-12-272 | " #34 | 1967 | 288-377 | 390 | 1050 | " |
| 31-12-273 | " #30 | 1965 | 224-275 | 279 | 811 | " |
| 31-12-281 | " #15 | 1956 | 455-597 | 634 | 1100 | " |
| 31-12-281 | " #1 | 1968 | 480-490 | 517 | 133 | " |
| 31-12-317 | Borough of Haddonfield, #2 | 1956 | 206-246 | 254 | 1001 | " |
| 31-12-355 | Tavistock Country Club | 1968 | 219-246 | 246 | 300 | " |
| 31-12-414 | Borough of Bellmawr | 1966 | 380-557 | 580 | 1016 | " |
| 31-12-417 | Miller International Co. | 1963 | 250-260 | 263 | 150 | " |
| 31-12-428 | Trap Rock Industries | 1963 | 195-221 | 350 | 254 | Ket |
| 31-12-465 | N. J. Water Co., #19 | 1958 | 297-339 | 340 | 1900 | Kmr |
| 31-12-499 | RCA | 1964 | 180-190 | 212 | 125 | Ket |
| 31-12-523 | Weyerhauser Corp. | 1969 | 243-273 | 285 | 243 | Kmr |
| 31-12-525 | Owens-Corning Fiberglass Co., #2 Test | 1964 | 563-618 | 685 | 900 | " |
| 31-12-526 | #1 Test | 1964 | 107-137 | 140 | 170 | Ket |
| 31-12-526 | #3 Test | 1964 | - | 515 | 500 | Kmr |
| 31-12-534 | #1 | 1956 | 285-315 | 502 | 1045 | " |
| 31-12-534 | #2 | 1946 | 290-320 | 344 | 1000 | " |
| 31-12-534 | Laurel Springs Water Co. | 1964 | 428-510 | 524 | 710 | " |
| 31-12-572 | N. J. Water Co., #29 | 1965 | 612-712 | 722 | 1050 | Kr |
| 31-12-584 | Owens-Corning Fiberglass Co. | 1957 | - | 306 | 100 | Kmr |
| 31-12-646 | Tracy Val Inc. | 1972 | 294-303 | 303 | 100 | " |
| 31-12-652 | Abbotts Dairies Inc. | 1960 | 354-375 | 447 | 200 | " |
| 31-12-658 | Laurel Springs Water Co. | 1956 | 398-441 | 500 | 709 | Kr |
| 31-12-786 | Gloucester Twp. Mun. Util. Auth. | 1971 | 334-359 | 359 | 75 | Kmr |
| 31-12-938 | Laurel Springs Water Co., #13 | 1954 | 394-456 | 555 | 800 | " |
| 31-12-938 | " #15 | 1964 | 395-473 | 481 | 650 | " |
| 31-12-974 | Garden State Water Co., #1 Test | 1970 | 457-467 | 514 | 75 | " |

J. Geodetic Control Survey monuments described in
Index Maps 48,54; adjacent Index Maps 49,55

SUBJECT TO REVISION

**WATER WITHDRAWAL
POINTS AND
NJGS CASE INDEX
SITES WITHIN
5.0 MILES OF:**

LATITUDE 395620
LONGITUDE 750615

DRAFT

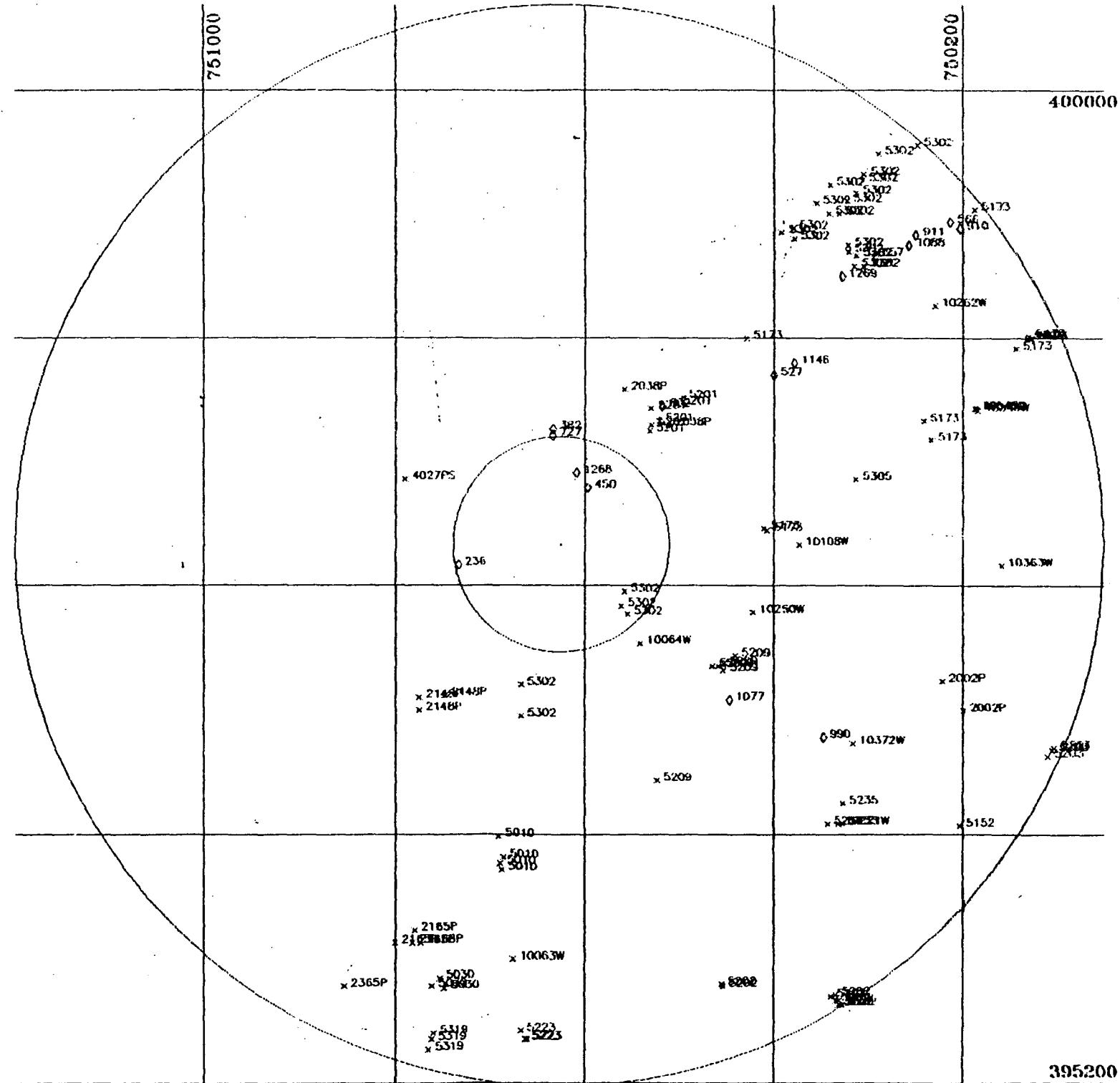
SCALE: 1:63,360
(1 Inch = 1 Mile)

- X WATER WITHDRAWAL POINTS
- O NJDS CASE INDEX SITES
- 1 MILE AND 5 MILE RADII INDICATED

NJGS CASE INDEX DATA RETRIEVED FROM:
NEW JERSEY GEOLOGICAL SURVEY
ON 12/22/87

PLOT PRODUCED BY:
NJDEP
DIVISION OF WATER RESOURCES
BUREAU OF WATER ALLOCATION
CN-023
TRENTON, NJ 08625

DATE: 10/08/88



Page 1 of PRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 395620 LAT. 750615 LON. (IN ORDER BY PERMIT NUMBER) - 10/06/88

| NUMBER | NAME | SOURCEID | LOCID | LAT | LON | LLADC | DISTANCE | COUNTY | MUN | DEPTH | GEO1 | GEO2 | CAPACITY |
|--------|--------------------------------|----------------|------------|--------|--------|-------|----------|--------|-----|-------|-------|------|----------|
| 2053W | GLoucester City Bd. of Ed. | 3104482 | 1 | 395300 | 750645 | F | 3.9 | 07 | 14 | | GMR | | |
| 2054W | Our Lady of Lourdes Med. Cent. | 3104620 | 1 | 395532 | 750625 | F | 1.2 | 07 | 08 | 257 | GMR | | 250 |
| 2108W | CAMDEN CO VOC. & TECH. SCHOOLS | 3105139 | 1 | 395620 | 750344 | F | 2.2 | 07 | 15 | 401 | GMR | | |
| 2221W | HADDON TOWNSHIP BOARD OF ED. | 3104986 | 1 | 395405 | 750318 | T | 3.7 | 07 | 16 | 165 | GMR | | 100 |
| 0250W | BISHOP EUSTACE PREP SCHOOL | 3117884 | 1 | 395547 | 750413 | T | 1.9 | 07 | 27 | 150 | GMR | | 200 |
| 2262W | SCHAEVITZ ENGINEERING | 3103338 | 1 | 395816 | 750218 | T | 4.1 | 07 | 27 | | GMR | | |
| | SCHAEVITZ ENGINEERING | 3103437 | 2 | 395816 | 750218 | T | 4.1 | 07 | 27 | | GMR | | |
| | SCHAEVITZ ENGINEERING | 3103444 | 3 | 395816 | 750218 | T | 4.1 | 07 | 27 | | GMR | | |
| 0363W | CHERRY HILL INN | UNKNOWN | 1 | 395610 | 750136 | T | 4.1 | 07 | 16 | 179 | GMR | | 400 |
| 0372W | MORGAN BROTHERS, INC. | 3105138 | 1 | 395444 | 750309 | F | 3.3 | 07 | 16 | 451 | GMR | | 300 |
| 0549W | SYCAMORE RIDGE APARTMENTS | 3127829 | 3 | 395725 | 750151 | T | 4.0 | 07 | 27 | | GMR | | 45 |
| 0023P | GARDEN STATE RACE TRACK, INC. | 5100094 | 1 | 395514 | 750113 | T | 3.7 | 07 | 09 | 154 | GCR | | 300 |
| | GARDEN STATE RACE TRACK, INC. | 5100095 | 2 | 395520 | 750200 | M | 4.0 | 07 | 09 | 150 | GCR | | 400 |
| 0038P | H. KOHNSTAMM & CO. | 3119275 | 7 | 395735 | 750535 | | 1.5 | 07 | 08 | 194 | GCR | | 180 |
| | H. KOHNSTAMM & CO. | 3105064 | 6 | 395718 | 750507 | | 1.5 | 07 | 08 | 184 | GCR | | 200 |
| 0143P | MACANDREWS & FORBES CO. | 3100290 | 1 | 395507 | 750729 | | 1.8 | 07 | 08 | 103 | GMR | | 300 |
| | MACANDREWS & FORBES CO. | 5100035 | 2 | 395500 | 750745 | | 2.0 | 07 | 09 | 99 | GMR | | 350 |
| | MACANDREWS & FORBES CO. | 3123580 | 3 | 395500 | 750745 | F | 2.0 | 07 | 08 | 140 | GMR | | 350 |
| | MACANDREWS & FORBES CO. | DELAWARE RIVER | | 395506 | 750745 | U | 1.9 | 07 | 08 | | SDDEL | | |
| 0165P | G & W NATURAL RESOURCES GROUP | 3105642 | 1R | 395314 | 750746 | F | 3.8 | 07 | 14 | 281 | GCR | | 600 |
| | G & W NATURAL RESOURCES GROUP | 3103402 | 4 | 395308 | 750744 | F | 3.9 | 07 | 14 | 281 | GCR | | 600 |
| | G & W NATURAL RESOURCES GROUP | 3104454 | 5 | 395308 | 750749 | F | 3.9 | 07 | 14 | 274 | GCR | | 620 |
| 0365P | BIG TIMBER DR. | 395306 | 750800 | U | 4.0 | 07 | 14 | | | | SDBIG | | |
| | SEE GLOUCESTER COMPANY, L.P. | 395247 | 750632 | T | 4.5 | 20 | 15 | | | | SDDEL | | |
| 4027P | GENERAL ELECTRIC AEROSPACE | DELAWARE RIVER | FM 95.2 | 395452 | 750754 | T | 1.6 | 07 | 08 | | SDDEL | | |
| 5040 | GLoucester CITY | 3104306 | WELL #40 | 395349 | 750651 | | 2.9 | 07 | 14 | 262 | GMR | | 1000 |
| | GLoucester CITY | 3104903 | WELL #41 | 395359 | 750654 | | 2.8 | 07 | 14 | 269 | GMR | | 1000 |
| | GLoucester CITY | 3105242 | WELL #42 | 395343 | 750652 | | 3.1 | 07 | 14 | 306 | GMR | | 1000 |
| | GLoucester CITY | 3118822 | WELL #43 | 395346 | 750653 | | 3.0 | 07 | 14 | 260 | GMR | | 1000 |
| 5030 | BROOKLAWN BOROUGH WATER DEPT. | 3104325 | 1 | 395251 | 750732 | F | 4.2 | 07 | 07 | 327 | GMR | | 350 |
| | BROOKLAWN BOROUGH WATER DEPT. | 3114471 | 3 | 395246 | 750729 | F | 4.2 | 07 | 07 | | GMR | | 350 |
| | BROOKLAWN BOROUGH WATER DEPT. | 3119765 | 4 | 395247 | 750737 | F | 4.2 | 07 | 07 | 293 | GMR | | 350 |
| 5152 | HADDONFIELD BOROUGH | 3105108 | 6 | 395404 | 750202 | | 4.5 | 07 | 17 | 372 | GMR | | 1000 |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3105641 | BROWNINGIA | 395627 | 750404 | | 1.9 | 07 | 24 | 152 | GMR | | 875 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 3101417 | DEL GARD 2 | 395800 | 750417 | | 2.6 | 07 | 27 | 147 | GMR | | 700 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 3102915 | MARION 1 | 395720 | 750235 | | 3.5 | 07 | 27 | 279 | GMR | | 1000 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 3104441 | MARION 2 | 395711 | 750220 | | 3.6 | 07 | 27 | 262 | GMR | | 1000 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 3104836 | BROWNING3A | 395628 | 750406 | | 1.9 | 07 | 27 | 140 | GMR | | 900 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 3105110 | NATL HWY 1 | 395902 | 750153 | | 4.9 | 07 | 27 | 231 | GMR | | 1000 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 3100010 | PARK AVE 1 | 395800 | 750117 | | 4.7 | 07 | 27 | 274 | GMR | | 1005 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 5100064 | PARK AVE 2 | 395800 | 750118 | | 4.7 | 07 | 27 | 262 | GMR | | 1000 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 3103534 | PARK AVE 3 | 395801 | 750119 | | 4.7 | 07 | 27 | 277 | GMR | | 1000 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 3100011 | PARK AVE 5 | 395800 | 750120 | | 4.7 | 07 | 27 | 290 | GMR | | 1005 |
| | MERCHANTVILLE-PENNSAUKEN WATER | 3114564 | PARK AVE 6 | 395755 | 750127 | | 4.6 | 07 | 27 | 270 | GMR | | 1000 |
| 5201 | NEW JERSEY-AMERICAN WATER CO. | 3103456 | 50 | 395726 | 750618 | | 1.5 | 07 | 08 | 170 | GMR | | 700 |
| | NEW JERSEY-AMERICAN WATER CO. | 3104780 | 51 | 395720 | 750513 | | 1.5 | 07 | 08 | 192 | GMR | | 1300 |
| | NEW JERSEY-AMERICAN WATER CO. | 3104847 | 52 | 395715 | 750519 | | 1.3 | 07 | 08 | 198 | GMR | | 1050 |
| | NEW JERSEY-AMERICAN WATER CO. | 3118947 | 53 | 395728 | 750502 | | 1.7 | 07 | 08 | 194 | GMR | | 1000 |
| | NEW JERSEY-AMERICAN WATER CO. | 3118944 | 54 | 395731 | 750458 | | 1.8 | 07 | 08 | 195 | GMR | | 1000 |
| | NEW JERSEY-AMERICAN WATER CO. | 3120270 | 55 | 395718 | 750518 | | 1.4 | 07 | 08 | 176 | GMR | | 1050 |
| 5202 | NEW JERSEY-AMERICAN WATER CO. | 5100008 | HADDON 11 | 395243 | 750320 | | 4.9 | 07 | 18 | 272 | GMR | | 700 |
| | NEW JERSEY-AMERICAN WATER CO. | 5100009 | HADDON 12 | 395240 | 750318 | | 4.9 | 07 | 18 | 267 | GMR | | 700 |
| | NEW JERSEY-AMERICAN WATER CO. | 3101124 | HADDON 14 | 395242 | 750323 | | 4.9 | 07 | 18 | 598 | GMR | | 805 |

Line 2 of PRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 395620 LAT. 750615 LON. (IN ORDER BY PERMIT NUMBER) - 10/08/95

| NUMBER | NAME | SOURCEID | LOCID | LAT | LON | LLACC | DISTANCE | COUNTY | MUN | DEPTH | GEO1 | GEO2 | CAPACITY |
|--------|-------------------------------|----------|------------|--------|--------|-------|----------|--------|-----|-------|------|------|----------|
| | NEW JERSEY-AMERICAN WATER CO. | 3104793 | HADDON 30 | 395238 | 750318 | | 5.0 .07 | 18 | 279 | GMR | | 305 | |
| | NEW JERSEY-AMERICAN WATER CO. | 3103308 | EGEBERT 18 | 395248 | 750433 | | 4.3 .07 | 18 | 190 | GMR | | 700 | |
| | NEW JERSEY-AMERICAN WATER CO. | 3103054 | EGEBERT 35 | 395247 | 750432 | | 4.3 .07 | 18 | 494 | GMR | | 700 | |
| 303 | NEW JERSEY-AMERICAN WATER CO. | 3100664 | ELLIS 13 | 395442 | 750103 | | 4.9 .07 | 09 | 527 | GMR | | 1000 | |
| | NEW JERSEY-AMERICAN WATER CO. | 3103305 | ELLIS 16 | 395441 | 750104 | | 4.9 .07 | 09 | 230 | GMR | | 1150 | |
| | NEW JERSEY-AMERICAN WATER CO. | 3104098 | ELLIS 23 | 395438 | 750107 | | 4.9 .07 | 09 | 378 | GMR | | 1200 | |
| 309 | COLLINGWOOD BOROUGH | 3104053 | 2R | 395519 | 750432 | | 1.9 .07 | 12 | 281 | GMR | | 700 | |
| | COLLINGWOOD BOROUGH | 3104054 | 3R | 395522 | 750432 | | 1.9 .07 | 12 | 290 | GMR | | 800 | |
| | COLLINGWOOD BOROUGH | 5100030 | 4 | 395521 | 750435 | | 1.8 .07 | 12 | 304 | GMR | | 870 | |
| | COLLINGWOOD BOROUGH | 3100079 | 5 | 395521 | 750439 | | 1.8 .07 | 12 | 311 | GMR | | 650 | |
| | COLLINGWOOD BOROUGH | 5100031 | 6 | 395526 | 750424 | | 1.9 .07 | 12 | 281 | GMR | | 1000 | |
| | COLLINGWOOD BOROUGH | 3104799 | 7 | 395521 | 750439 | | 1.8 .07 | 12 | 312 | GMR | | 1000 | |
| | COLLINGWOOD BOROUGH | 3104797 | 8 | 395426 | 750514 | | 2.4 .07 | 12 | 318 | GMR | | 1000 | |
| 223 | BELLMAIR BOROUGH | 5104032 | 1 | 395221 | 750436 | | 4.6 .07 | 04 | 164 | GMR | | 500 | |
| | BELLMAIR BOROUGH | 3102687 | 3 | 395221 | 750637 | | 4.6 .07 | 04 | 359 | GMR | | 600 | |
| | BELLMAIR BOROUGH | 3119218 | 6 | 395225 | 750540 | | 4.5 .07 | 04 | 386 | GMR | | 1000 | |
| 5235 | HADDON TOWNSHIP WATER DEPT. | 3105243 | 1R | 395405 | 750315 | | 3.7 .07 | 16 | 481 | GMR | | 870 | |
| | HADDON TOWNSHIP WATER DEPT. | 3100432 | 2 | 395415 | 750345 | | 3.6 .07 | 16 | 470 | GMR | | 1300 | |
| | HADDON TOWNSHIP WATER DEPT. | 3102146 | 3 | 395405 | 750335 | | 3.6 .07 | 16 | 469 | GMR | | 820 | |
| | HADDON TOWNSHIP WATER DEPT. | 3104955 | 4 | 395405 | 750335 | | 3.6 .07 | 16 | 448 | GMR | | 1000 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 3100745 | MORRIS 3 | 395933 | 750229 | | 4.9 .07 | 27 | 107 | GMR | | 1800 | |
| | CAMDEN CITY, WATER DIVISION | 3104252 | MORRIS 4 | 395929 | 750253 | | 4.7 .07 | 27 | 134 | GMR | | 1600 | |
| | CAMDEN CITY, WATER DIVISION | 5100061 | MORRIS 6 | 395900 | 750318 | | 4.0 .07 | 27 | 138 | GMR | | 1700 | |
| | CAMDEN CITY, WATER DIVISION | 5100052 | MORRIS 7 | 395916 | 750303 | | 4.4 .07 | 27 | 125 | GMR | | 1680 | |
| | CAMDEN CITY, WATER DIVISION | 3100744 | MORRIS 8 | 395910 | 750307 | | 4.3 .07 | 27 | 128 | GMR | | 1670 | |
| | CAMDEN CITY, WATER DIVISION | 3104251 | MORRIS 10 | 395919 | 750302 | | 4.4 .07 | 27 | 118 | GMR | | 1400 | |
| | CAMDEN CITY, WATER DIVISION | 5100076 | MORRIS 9 | 395906 | 750313 | | 4.1 .07 | 27 | 148 | GMR | | 1670 | |
| | CAMDEN CITY, WATER DIVISION | 3116814 | MORRIS 12 | 395914 | 750324 | | 4.2 .07 | 27 | 122 | GMR | | 2030 | |
| | CAMDEN CITY, WATER DIVISION | 3115745 | MORRIS 11 | 395900 | 750325 | | 3.9 .07 | 27 | 149 | GMR | | 2030 | |
| | CAMDEN CITY, WATER DIVISION | 3116813 | MORRIS 13 | 395905 | 750333 | | 3.9 .07 | 27 | 135 | GMR | | 2050 | |
| | CAMDEN CITY, WATER DIVISION | 5100253 | DELAIR 1 | 395846 | 750347 | | 3.6 .07 | 27 | 141 | GMR | | 1650 | |
| | CAMDEN CITY, WATER DIVISION | 5100054 | DELAIR 2 | 395851 | 750355 | | 3.5 .07 | 27 | 146 | GMR | | 1830 | |
| | CAMDEN CITY, WATER DIVISION | 5100055 | DELAIR 3 | 395853 | 750348 | | 3.6 .07 | 27 | 135 | GMR | | 1830 | |
| | CAMDEN CITY, WATER DIVISION | 5100056 | FUCHACK 1 | 395845 | 750312 | | 3.8 .07 | 27 | 141 | GMR | | 1500 | |
| | CAMDEN CITY, WATER DIVISION | 5100057 | FUCHACK 2 | 395842 | 750312 | | 3.8 .07 | 27 | 169 | GMR | | 1000 | |
| | CAMDEN CITY, WATER DIVISION | 5100058 | FUCHACK 3 | 395840 | 750307 | | 3.8 .07 | 27 | 176 | GMR | | 1280 | |
| | CAMDEN CITY, WATER DIVISION | 5100059 | FUCHACK 5 | 395835 | 750308 | | 3.8 .07 | 27 | 186 | GMR | | 1324 | |
| | CAMDEN CITY, WATER DIVISION | 3106526A | FUCHACK 7 | 395835 | 750302 | | 3.8 .07 | 27 | 180 | GMR | | 2260 | |
| | CAMDEN CITY, WATER DIVISION | 5100060 | CITY 7 | 395457 | 750640 | | 1.6 .07 | 08 | 163 | GMR | | 1500 | |
| | CAMDEN CITY, WATER DIVISION | 5100061 | CITY 11 | 395512 | 750640 | | 1.4 .07 | 08 | 159 | GMR | | 1010 | |
| | CAMDEN CITY, WATER DIVISION | 3100704 | CITY 13 | 395557 | 750535 | | 0.7 .07 | 08 | 230 | GMR | | 1200 | |
| | CAMDEN CITY, WATER DIVISION | 3101250 | CITY 17 | 395546 | 750533 | | 0.9 .07 | 08 | 270 | GMR | | 1520 | |
| | CAMDEN CITY, WATER DIVISION | 3109574 | CITY 18 | 395550 | 750537 | | 0.8 .07 | 08 | 185 | GMR | | 1200 | |
| | CAMDEN CITY, WATER DIVISION | 3104649 | CITY 5 | 395457 | 750640 | | 1.6 .07 | 08 | 171 | GMR | | 1100 | |
| 5305 | MERCHANTVILLE-PENNSAUKEN | 3104642 | WOODBINE 1 | 395652 | 750307 | | 2.8 .07 | 24 | 288 | GMR | | 1000 | |
| | MERCHANTVILLE-PENNSAUKEN | 3114563 | WOODBINE 2 | 395652 | 750307 | | 2.8 .07 | 24 | 227 | GMR | | 1000 | |
| 5319 | WESTVILLE BOROUGH | 3103418 | 4 | 395221 | 750737 | F | 4.7 .15 | 21 | 313 | GMR | | 750 | |
| | WESTVILLE BOROUGH | 3105689 | 5 | 395216 | 750739 | F | 4.8 .15 | 21 | 317 | GMR | | 1000 | |
| | WESTVILLE BOROUGH | 3117923 | 6 | 395224 | 750736 | F | 4.7 .15 | 21 | 317 | GMR | | 1000 | |

Page 1 of PRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 395620 LAT. 750615 LON. (IN ORDER BY DECREASING LONGITUDE) - 10/09/03

| NUMBER | NAME | SOURCEID | LOCID | LAT | LON | LLAOC | DISTANCE | COUNTY | MUN | DEPTH | GEO1 | GEO2 | CAPACITY |
|--------|--------------------------------|----------------|------------|--------|--------|-------|----------|--------|-----|-------|-------|------|----------|
| 365P | SEB GLOUCESTER COMPANY, L.P. | DELAWARE RIVER | RM 95.2 | 395247 | 750632 | T | 4.5 | 20 | 15 | | SDDEL | | |
| 1165P | G & W NATURAL RESOURCES GROUP | BIG TIMBER DR. | | 395328 | 750600 | U | 4.0 | 07 | 14 | | SDBIG | | |
| 1027PS | GENERAL ELECTRIC AEROSPACE | DELAWARE RIVER | | 395652 | 750754 | T | 1.6 | 07 | 08 | | SDDEL | | |
| 1165P | G & W NATURAL RESOURCES GROUP | 3104454 | 5 | 395308 | 750749 | F | 3.9 | 07 | 14 | 274 | GJR | | 600 |
| 1165P | G & W NATURAL RESOURCES GROUP | 3106642 | 1R | 395314 | 750748 | F | 3.8 | 07 | 14 | 261 | GJR | | 600 |
| 2143P | MACANDREWS & FORBES CO. | 5100035 | 2 | 395500 | 750745 | | 2.0 | 07 | | 99 | GMR | | 350 |
| 2148P | MACANDREWS & FORBES CO. | 3123580 | 3 | 395500 | 750745 | F | 2.0 | 07 | 08 | 140 | GMR | | 350 |
| 2148P | MACANDREWS & FORBES CO. | DELAWARE RIVER | | 395308 | 750745 | U | 1.9 | 07 | 08 | | SDDEL | | |
| 2145P | G & W NATURAL RESOURCES GROUP | 3103402 | 4 | 395308 | 750744 | F | 3.9 | 07 | 14 | 281 | GJR | | 600 |
| 5319 | WESTVILLE BOROUGH | 3106689 | 5 | 395216 | 750739 | F | 4.8 | 15 | 21 | | GMR | | 1000 |
| 5030 | BROOKLAWN BOROUGH WATER DEPT. | 3119765 | 4 | 395247 | 750737 | F | 4.2 | 07 | 07 | 293 | GMR | | 350 |
| 5319 | WESTVILLE BOROUGH | 3103418 | 4 | 395221 | 750737 | F | 4.7 | 15 | 21 | 313 | GMR | | 750 |
| 5319 | WESTVILLE BOROUGH | 3117923 | 6 | 395224 | 750736 | F | 4.7 | 15 | 21 | 317 | GMR | | 1000 |
| 5030 | BROOKLAWN BOROUGH WATER DEPT. | 3104325 | 1 | 395251 | 750732 | F | 4.2 | 07 | 07 | 327 | GMR | | 350 |
| 2148P | MACANDREWS & FORBES CO. | 3100290 | 1 | 395507 | 750729 | | 1.8 | 07 | 08 | 103 | GMR | | 300 |
| 5030 | BROOKLAWN BOROUGH WATER DEPT. | 3114471 | 3 | 395246 | 750729 | F | 4.2 | 07 | 07 | | GMR | | 350 |
| 5010 | GLoucester City | 3104903 | WELL #41 | 395257 | 750654 | | 2.8 | 07 | 14 | 269 | GMR | | 1000 |
| 5010 | GLoucester City | 3118822 | WELL #43 | 395346 | 750653 | | 3.0 | 07 | 14 | 260 | GMR | | 1000 |
| 5010 | GLoucester City | 3105242 | WELL #42 | 395343 | 750652 | | 3.1 | 07 | 14 | 306 | GMR | | 1000 |
| 5010 | GLoucester City | 3104306 | WELL #40 | 395349 | 750651 | | 2.9 | 07 | 14 | 262 | GMR | | 1000 |
| 10063W | GLoucester City Bd. of Ed. | 3104482 | 1 | 395300 | 750645 | F | 3.9 | 07 | 14 | | GMR | | |
| 5223 | BELLMAR BOROUGH | 3119218 | 6 | 395225 | 750640 | | 4.5 | 07 | 04 | 386 | GMR | | 1000 |
| 5302 | CAMDEN CITY, WATER DIVISION | 5100060 | CITY 7 | 395457 | 750640 | | 1.6 | 07 | 08 | 163 | GMR | | 1500 |
| 5302 | CAMDEN CITY, WATER DIVISION | 5100061 | CITY 11 | 395512 | 750640 | | 1.4 | 07 | 08 | 159 | GMR | | 1010 |
| 5302 | CAMDEN CITY, WATER DIVISION | 3104649 | CITY 5 | 395457 | 750640 | | 1.6 | 07 | 08 | 171 | GMR | | 1100 |
| 5223 | BELLMAR BOROUGH | 3102687 | 3 | 395221 | 750637 | | 4.6 | 07 | 04 | 359 | GMR | | 800 |
| 5223 | BELLMAR BOROUGH | 5100032 | 1 | 395221 | 750636 | | 4.6 | 07 | 04 | 164 | GMR | | 500 |
| 5302 | CAMDEN CITY, WATER DIVISION | 3109574 | CITY 18 | 395550 | 750637 | | 0.8 | 07 | 08 | 186 | GMR | | 1200 |
| 2038P | H. KOHNSTAMM & CO. | 3119275 | 7 | 395735 | 750535 | | 1.5 | 07 | 08 | 194 | GJR | | 180 |
| 5302 | CAMDEN CITY, WATER DIVISION | 3100904 | CITY 13 | 395557 | 750535 | | 0.7 | 07 | 08 | 230 | GMR | | 1200 |
| 5302 | CAMDEN CITY, WATER DIVISION | 3101250 | CITY 17 | 395546 | 750533 | | 0.9 | 07 | 08 | 270 | GMR | | 1500 |
| 10064W | OUR LADY OF LOURDES MED. CENT. | 3104620 | 1 | 395532 | 750525 | F | 1.2 | 07 | 08 | 257 | GMR | | 250 |
| 5201 | NEW JERSEY-AMERICAN WATER CO. | 3104847 | 52 | 395715 | 750519 | | 1.3 | 07 | 08 | 198 | GMR | | 1050 |
| 5201 | NEW JERSEY-AMERICAN WATER CO. | 3103456 | 50 | 395726 | 750518 | | 1.5 | 07 | 08 | 170 | GMR | | 700 |
| 5201 | NEW JERSEY-AMERICAN WATER CO. | 3120270 | 55 | 395718 | 750518 | | 1.4 | 07 | 08 | 176 | GMR | | 1050 |
| 5209 | COLLINGSWOOD BOROUGH | 3104797 | 8 | 395426 | 750514 | | 2.4 | 07 | 12 | 318 | GMR | | 1000 |
| 5201 | NEW JERSEY-AMERICAN WATER CO. | 3104760 | 51 | 395720 | 750513 | | 1.5 | 07 | 08 | 192 | GMR | | 1300 |
| 2038P | H. KOHNSTAMM & CO. | 3105034 | 6 | 395718 | 750507 | | 1.5 | 07 | 08 | 184 | GJR | | 200 |
| 5201 | NEW JERSEY-AMERICAN WATER CO. | 3118947 | 53 | 395728 | 750502 | | 1.7 | 07 | 08 | 194 | GMR | | 1000 |
| 5201 | NEW JERSEY-AMERICAN WATER CO. | 3118944 | 54 | 395731 | 750458 | | 1.8 | 07 | 08 | 195 | GMR | | 1000 |
| 5209 | COLLINGSWOOD BOROUGH | 3100079 | 5 | 395521 | 750439 | | 1.8 | 07 | 12 | 311 | GMR | | 650 |
| 5209 | COLLINGSWOOD BOROUGH | 3104799 | 7 | 395521 | 750439 | | 1.8 | 07 | 12 | 312 | GMR | | 1000 |
| 5209 | COLLINGSWOOD BOROUGH | 5100030 | 4 | 395521 | 750435 | | 1.8 | 07 | 12 | 304 | GMR | | 870 |
| 5202 | NEW JERSEY-AMERICAN WATER CO. | 3103308 | EGBERT 18 | 395248 | 750433 | | 4.3 | 07 | 18 | 190 | GMR | | 700 |
| 5202 | NEW JERSEY-AMERICAN WATER CO. | 3105054 | EGBERT 35 | 395247 | 750432 | | 4.3 | 07 | 18 | 484 | GMR | | 700 |
| 5209 | COLLINGSWOOD BOROUGH | 3104053 | 2R | 395519 | 750432 | | 1.9 | 07 | 12 | 281 | GMR | | 700 |
| 5209 | COLLINGSWOOD BOROUGH | 3104024 | 3R | 395522 | 750432 | | 1.9 | 07 | 12 | 290 | GMR | | 800 |
| 5209 | COLLINGSWOOD BOROUGH | 5100031 | 6 | 395526 | 750424 | | 1.9 | 07 | 12 | 281 | GMR | | 1000 |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3101417 | DEL GARD 2 | 395800 | 750417 | | 2.6 | 07 | 27 | 147 | GJR | | 700 |
| 10250W | BISHOP EUSTACE PREP SCHOOL | 3117884 | 1 | 395547 | 750413 | T | 1.9 | 07 | 27 | 150 | GJR | | 200 |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3104836 | BROWNING2A | 395628 | 750406 | | 1.9 | 07 | 27 | 140 | GMR | | 900 |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3105641 | BROWNING1A | 395627 | 750404 | | 1.9 | 07 | 24 | 152 | GMR | | 875 |
| 5202 | CAMDEN CITY, WATER DIVISION | 5100054 | DELAIR 2 | 395851 | 750355 | | 3.5 | 07 | 27 | 146 | GMR | | 1830 |
| 5202 | CAMDEN CITY, WATER DIVISION | 5100055 | DELAIR 3 | 395853 | 750348 | | 3.6 | 07 | 27 | 135 | GMR | | 1830 |

Page 2 of PRELIMINARY SURVEY OF WATER WITHDRAWAL POINTS WITHIN 5.0 MILES OF 395620 LAT. 750615 LON. (IN ORDER BY DECREASING LONGITUDE) - 10/08/88

| NUMBER | NAME | SOURCEID | LOCID | LAT | LON | LLAQC | DISTANCE | COUNTY | MUN | DEPTH | SE01 | SE02 | CAPACITY |
|--------|--------------------------------|----------|------------|---------|---------|-------|----------|--------|-----|-------|------|------|----------|
| 362 | CAMDEN CITY, WATER DIVISION | 3116813 | MORRIS 13 | 3956905 | 7503333 | | 3.9 .07 | 27 | 135 | GMR | | 2000 | |
| 235 | HADDON TOWNSHIP WATER DEPT. | 3102146 | 3 | 395405 | 7503325 | | 3.6 .07 | 16 | 469 | GMR | | 800 | |
| 1235 | HADDON TOWNSHIP WATER DEPT. | 3104955 | 4 | 395405 | 7503325 | | 3.6 .07 | 16 | 448 | GMR | | 1000 | |
| 202 | CAMDEN CITY, WATER DIVISION | 3115745 | MORRIS 11 | 395900 | 7503325 | | 3.9 .07 | 27 | 149 | GMR | | 2000 | |
| 1302 | CAMDEN CITY, WATER DIVISION | 3116814 | MORRIS 12 | 395914 | 7503324 | | 4.2 .07 | 27 | 122 | GMR | | 2000 | |
| 3202 | NEW JERSEY-AMERICAN WATER CO. | 3101124 | HADDON 14 | 395242 | 750323 | | 4.9 .07 | 18 | 598 | GMR | | 800 | |
| 5202 | NEW JERSEY-AMERICAN WATER CO. | 5100009 | HADDON 11 | 395243 | 750320 | | 4.9 .07 | 18 | 272 | GMR | | 700 | |
| 5202 | NEW JERSEY-AMERICAN WATER CO. | 3103375 | HADDON 20 | 395240 | 750320 | | 4.9 .07 | 18 | 267 | GMR | | 100 | |
| 10221W | HADDON TOWNSHIP BOARD OF ED. | 3104986 | 1 | 395405 | 750318 | T | 3.7 .07 | 16 | 165 | GMR | | 100 | |
| 5202 | NEW JERSEY-AMERICAN WATER CO. | 5100009 | HADDON 12 | 395240 | 750318 | | 4.9 .07 | 18 | 267 | GMR | | 700 | |
| 5202 | NEW JERSEY-AMERICAN WATER CO. | 3104798 | HADDON 30 | 395238 | 750318 | | 5.0 .07 | 18 | 279 | GMR | | 800 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 5100051 | MORRIS 6 | 395900 | 750318 | | 4.0 .07 | 27 | 138 | GMR | | 1700 | |
| 5202 | NEW JERSEY-AMERICAN WATER CO. | 3102434 | HADDON 15 | 395239 | 750316 | | 5.0 .07 | 18 | 597 | GMR | | 800 | |
| 5205 | HADDON TOWNSHIP WATER DEPT. | 3105243 | 1R | 395405 | 750315 | | 3.7 .07 | 16 | 431 | GMR | | 870 | |
| 5205 | HADDON TOWNSHIP WATER DEPT. | 3100432 | 2 | 395415 | 750315 | | 3.6 .07 | 16 | 470 | GMR | | 1300 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 5100076 | MORRIS 9 | 395906 | 750313 | | 4.1 .07 | 27 | 148 | GMR | | 1670 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 5100058 | FUCHACK 1 | 395845 | 750312 | | 3.9 .07 | 27 | 141 | GMR | | 1500 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 5100057 | FUCHACK 2 | 395842 | 750312 | | 3.9 .07 | 27 | 189 | GMR | | 1000 | |
| 10372W | MORGAN BROTHERS, INC. | 3105178 | 1 | 395444 | 750309 | F | 3.3 .07 | 16 | 451 | GMR | | 300 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 5100059 | FUCHACK 5 | 395835 | 750308 | | 3.8 .07 | 27 | 186 | GMR | | 1324 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 3100944 | MORRIS 8 | 395910 | 750307 | | 4.3 .07 | 27 | 128 | GMR | | 1670 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 5100058 | FUCHACK 3 | 395840 | 750307 | | 3.8 .07 | 27 | 176 | GMR | | 1292 | |
| 5305 | MERCHANTVILLE-PENNSAUKEN | 3104542 | WOODBINE 1 | 395652 | 750307 | | 2.8 .07 | 24 | 288 | GMR | | 1000 | |
| 5305 | MERCHANTVILLE-PENNSAUKEN | 3114563 | WOODBINE 2 | 395652 | 750307 | | 2.8 .07 | 24 | 227 | GMR | | 1000 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 5100052 | MORRIS 7 | 395916 | 750303 | | 4.4 .07 | 27 | 125 | GMR | | 1630 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 3104251 | MORRIS 10 | 395919 | 750302 | | 4.4 .07 | 27 | 118 | GMR | | 1400 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 3106526A | FUCHACK 7 | 395835 | 750302 | | 3.8 .07 | 27 | 180 | GMR | | 2260 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 3104252 | MORRIS 4 | 395929 | 750253 | | 4.7 .07 | 27 | 134 | GMR | | 1600 | |
| 5302 | CAMDEN CITY, WATER DIVISION | 3100945 | MORRIS 3 | 395933 | 750229 | | 4.9 .07 | 27 | 107 | GMR | | 1800 | |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3102915 | MARION 1 | 395720 | 750225 | | 3.5 .07 | 27 | 279 | GMR | | 1000 | |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3104641 | MARION 2 | 395711 | 750220 | | 3.6 .07 | 27 | 262 | GMR | | 1000 | |
| 10262W | SCHAEVITZ ENGINEERING | 3103338 | 1 | 395816 | 750218 | T | 4.1 .07 | 27 | | GMR | | | |
| 10262W | SCHAEVITZ ENGINEERING | 3103437 | 2 | 395816 | 750218 | T | 4.1 .07 | 27 | | GMR | | | |
| 10262W | SCHAEVITZ ENGINEERING | 3103444 | 3 | 395816 | 750218 | T | 4.1 .07 | 27 | | GMR | | | |
| 2003P | GARDEN STATE RACE TRACK, INC. | 5100094 | 1 | 395514 | 750213 | T | 3.7 .07 | 09 | 154 | GMR | | 300 | |
| 5152 | HADDONFIELD BOROUGH | 3105108 | 6 | 395404 | 750202 | | 4.5 .07 | 17 | 372 | GMR | | 1000 | |
| 2003P | GARDEN STATE RACE TRACK, INC. | 5100095 | 2 | 3955100 | 750200 | M | 4.0 .07 | 09 | 150 | GMR | | 400 | |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3105110 | NATL HWY 1 | 395902 | 750153 | | 4.9 .07 | 27 | 231 | GMR | | 1000 | |
| 10549W | SYCAMORE RIDGE APARTMENTS | 3127629 | 3 | 395725 | 750151 | T | 4.0 .07 | 27 | | GMR | | 45 | |
| 10363W | CHERRY HILL INN | UNKNOWN | 1 | 395610 | 750136 | T | 4.1 .07 | 16 | 179 | GMR | | 400 | |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3114564 | PARK AVE 6 | 395755 | 750127 | | 4.6 .07 | 27 | 270 | GMR | | 1000 | |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3100011 | PARK AVE 5 | 395800 | 750120 | | 4.7 .07 | 27 | 290 | GMR | | 1005 | |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3103534 | PARK AVE 3 | 395801 | 750119 | | 4.7 .07 | 27 | 277 | GMR | | 1000 | |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 5100064 | PARK AVE 2 | 395800 | 750118 | | 4.7 .07 | 27 | 262 | GMR | | 1000 | |
| 5173 | MERCHANTVILLE-PENNSAUKEN WATER | 3100010 | PARK AVE 1 | 395800 | 750117 | | 4.7 .07 | 27 | 274 | GMR | | 1005 | |
| 5203 | NEW JERSEY-AMERICAN WATER CO. | 3104098 | ELLIS 23 | 395438 | 750107 | | 4.9 .07 | 09 | 378 | GMR | | 1200 | |
| 5203 | NEW JERSEY-AMERICAN WATER CO. | 3103305 | ELLIS 16 | 395441 | 750104 | | 4.9 .07 | 09 | 230 | GMR | | 1180 | |
| 5203 | NEW JERSEY-AMERICAN WATER CO. | 3100684 | ELLIS 13 | 395442 | 750103 | | 4.9 .07 | 09 | 527 | GMR | | 1000 | |

306 3 of NJGS CASE INDEX SITES WITHIN 5.0 MILES OF 395620 LAT. 750615 LON. AS OF 12/22/87 (IN ORDER BY SITE NUMBER) - 10/08/88

| ITEMNUM | NAME | LAT | LON | DISTANCE | CONTAM | FMCODE1 | FMCODE2 | STATUS1 | STATUS2 |
|---------|---|--------|--------|----------|--------|---------|---------|---------|---------|
| 236 | MORR'S AMOCO, CAMDEN CO. | 395610 | 750720 | 1.0 | 51 | 103 | 2030 | 5 | |
| 382 | CAMDEN MUNICIPAL WELLS, CAMDEN CITY, CAMDEN CO. | 395715 | 750620 | 1.1 | 00 | 0102 | 2030 | 1 | |
| 450 | CONRAIL, FAVONIA YARD, CAMDEN, CAMDEN CO. | 395648 | 750558 | 0.6 | 53 | 103 | 160 | 1 | |
| 527 | SGL MODERN HARD CHROME SERVICE, PENNSAUKEN, CAMDEN CO. | 395742 | 750400 | 2.5 | 39 | 2030 | 0 | 9 | |
| 566 | SWOPE OIL AND CHEMICAL, PENNSAUKEN, CAMDEN CO. | 395856 | 750208 | 4.7 | 00 | 2030 | 0 | 1 | E |
| 657 | CAMDEN'S PUCHACK WELL FIELD, CAMDEN CO. | 395840 | 750255 | 4.0 | 39 | 2030 | 0 | 1 | |
| 727 | HARRISON AVE. LANDFILL, CAMDEN, CAMDEN CO. | 395713 | 750620 | 1.0 | 0 | 2030 | 0 | 9 | |
| 802 | LANGSTON DIV-MOLINS MACHINE CO., CAMDEN, CAMDEN CO. | 395727 | 750611 | 1.6 | 00 | 2030 | | 1 | B |
| 910 | MERCHANTVILLE/PENNSAUKEN WATER COMMISSION, PENNSAUKEN, CAMDEN CO. | 395853 | 750202 | 4.7 | 00 | 0102 | 2030 | 1 | C |
| 911 | FENLAR ANODIZING, PENNSAUKEN, CAMDEN CO. | 395850 | 750230 | 4.4 | 00 | 2030 | 0 | 1 | C |
| 990 | WESTMONT MOBIL, WESTMONT, CAMDEN CO. | 395447 | 750328 | 3.0 | 0 | 0 | 0 | 3 | |
| 077 | BOB'S EXTRA STATION, COLLINGWOOD, CAMDEN CO | 395505 | 750428 | 2.1 | 51 | 2030 | 0 | F | |
| 1038 | GARDEN STATE MOTORS, PENNSAUKEN, CAMDEN CO. | 395845 | 750234 | 4.3 | 53 | 2030 | 0 | 1 | B |
| 1448 | SHELL SERVICE STATION, RT 130 & BOWING RD, PENNSAUKEN, CAMDEN CO. | 395748 | 750347 | 2.7 | 51 | | | 3 | |
| 1268 | ADVANCED CHEMICAL TECHNOLOGY, CAMDEN CITY, CAMDEN CO. | 395655 | 750605 | 0.7 | 68 | 0102 | 2030 | 1 | B |
| 269 | ADVANCED PROCESS SUPPLY, PENNSAUKEN, CAMDEN CO. | 395830 | 750316 | 3.6 | 00 | 2030 | | 1 | B |

Number of Observations: 16

| SITENUM | NAME | LAT | LON | DISTANCE | CONTAM | FMCODE1 | FMCODE2 | STATUS1 | STATUS2 |
|---------|--|--------|--------|----------|--------|---------|---------|---------|---------|
| 236 | MONK'S AMODD, CAMDEN CO. | 395610 | 750720 | 1.0 | 51 | 103 | 2030 | 5 | |
| 382 | CAMDEN MUNICIPAL WELLS, CAMDEN CITY, CAMDEN CO. | 395718 | 750620 | 1.1 | 00 | 0102 | 2030 | 1 | |
| 727 | HARRISON AVE. LANDFILL, CAMDEN, CAMDEN CO. | 395713 | 750620 | 1.0 | 0 | 2030 | 0 | 9 | |
| 1268 | ADVANCED CHEMICAL TECHNOLOGY, CAMDEN CITY, CAMDEN CO. | 395655 | 750505 | 0.7 | 68 | 0102 | 2030 | 1 | B |
| 450 | CONRAIL, FAVONIA YARD, CAMDEN, CAMDEN CO. | 395648 | 750558 | 0.6 | 53 | 103 | 160 | 1 | |
| 802 | LANGSTON DIV-MOLINS MACHINE CO., CAMDEN, CAMDEN CO. | 395727 | 750511 | 1.6 | 00 | 2030 | 0 | 1 | B |
| 1077 | BOB'S EXTRA STATION, COLLINGSWOOD, CAMDEN CO | 395505 | 750428 | 2.1 | 51 | 2030 | 0 | F | |
| 527 | SGI MODERN HARD CHROME SERVICE, PENNSAUKEN, CAMDEN CO. | 395742 | 750400 | 2.5 | 39 | 2030 | 0 | 9 | |
| 1148 | SHELL SERVICE STATION, RT 130 & BORWING RD, PENNSAUKEN, CAMDEN CO. | 395748 | 750347 | 2.7 | 51 | | | 3 | |
| 990 | WESTMONT MOBIL, WESTMONT, CAMDEN CO. | 395447 | 750328 | 3.0 | 0 | 0 | 0 | 3 | |
| 1269 | ADVANCED PROCESS SUPPLY, PENNSAUKEN, CAMDEN CO. | 395830 | 750316 | 3.6 | 00 | 2030 | | 1 | B |
| 657 | CAMDEN'S PUCHACK WELL FIELD, CAMDEN CO. | 395840 | 750255 | 4.0 | 39 | 2030 | 0 | 1 | |
| 1038 | GARDEN STATE MOTORS, PENNSAUKEN, CAMDEN CO. | 395845 | 750234 | 4.3 | 53 | 2030 | 0 | 1 | B |
| 911 | PENLAR ANODIZING, PENNSAUKEN, CAMDEN CO. | 395850 | 750230 | 4.4 | 00 | 2030 | 0 | 1 | C |
| 566 | SWORE OIL AND CHEMICAL, PENNSAUKEN, CAMDEN CO. | 395856 | 750208 | 4.7 | 00 | 2030 | 0 | 1 | E |
| 910 | MERCHANTVILLE/PENNSAUKEN WATER COMMISSION, PENNSAUKEN, CAMDEN CO. | 395853 | 750202 | 4.7 | 00 | 0102 | 2030 | 1 | C |

Number of Observations: 16



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLID WASTE ADMINISTRATION
TRENTON, 08625

BEATRICE S. TYLUTKI
DIRECTOR

May 19, 1978

Mr. John T. Nolan
Production Supervisor
Monsanto Industrial Chemical Co.
1500 Pine Street
Camden, New Jersey 08103

Re: Disposal of Lampblack

Dear Mr. Nolan:

Pursuant to your request I have reviewed submitted data concerning physiological effects of carbonblack (similar to Lampblack). Although certain polycyclic aromatic hydrocarbons may be adsorbed on Lampblack, the data of Nau et al clearly suggests that prolonged exposure to carbon black (C3H mice; monkeys) through ingestion, dermal application and inhalation produced no significant physiological effects. Further said material appear to be substantially wetted, would probably not create dust problems, and would be quickly covered in a landfill site. Therefore, Lampblack residues are not considered special waste and do not require a Manifest.

Should you have any additional questions regarding this matter, please contact me directly.

Very truly yours,
A handwritten signature in ink, appearing to read "Ronald J. Buchanan".
Ronald J. Buchanan, Ph.D.
Chief
Bureau of Hazardous & Chemical Wastes

RJB:hjg

ATT. B



FEDERAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

Rec'd by HQ
Rich

GENERAL INSTRUCTIONS. Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency, Site Tracking System, Hazardous Waste Enforcement Task Force (EN-335), 401 M St., SW, Washington, DC 20460.

I. SITE IDENTIFICATION

| | | | |
|--|--|--|---------------------------------|
| A. SITE NAME <u>Monsanto (plant ID# 50012)</u> | B. STREET (or other identifier) <u>1500 Pine Street</u> | | |
| C. CITY <u>Camden</u> | D. STATE <u>N.J.</u> | E. ZIP CODE <u>08013</u> | F. COUNTY NAME <u>Camden</u> |
| G. SITE OPERATOR INFORMATION | | | |
| I. NAME <u>D.C. Dieterich</u> | J. TITLE <u>Plant Manager</u> | | |
| I. STREET <u>1500 Pine Street</u> | J. CITY <u>Camden</u> | K. TELEPHONE NUMBER <u>(609) 963-0243</u> | |
| L. PROPERTY OWNER INFORMATION (if different from operator of site) | | | |
| I. NAME | J. TELEPHONE NUMBER | | |
| S. CITY | K. STATE <u>N.J.</u> L. ZIP CODE <u>08103</u> | | |

I. SITE DESCRIPTION

| | | | | |
|--|-----------------------------------|------------------------------------|---------------------------------------|--|
| M. PROPERTY DESCRIPTION <u>25 Acre, Industrial Chemical</u> | | | | |
| N. TYPE OF OWNERSHIP | | | | |
| <input type="checkbox"/> 1. FEDERAL | <input type="checkbox"/> 2. STATE | <input type="checkbox"/> 3. COUNTY | <input type="checkbox"/> 4. MUNICIPAL | <input checked="" type="checkbox"/> 5. PRIVATE |

II. TENTATIVE DISPOSITION (complete this section last) N/A

| | | | | |
|---|------------------------------------|------------------------------------|---------------------------------|----------------------------------|
| A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.) | B. APPARENT SERIOUSNESS OF PROBLEM | | | |
| | <input type="checkbox"/> 1. HIGH | <input type="checkbox"/> 2. MEDIUM | <input type="checkbox"/> 3. LOW | <input type="checkbox"/> 4. NONE |

| | | | | |
|--------------------------------|---------------------------------|---------------------|--|---------------------------|
| C. PREPARED INFORMATION | | D. TELEPHONE NUMBER | | E. DATE (mo., day, & yr.) |
| 1. NAME <u>Wayne Howitz</u> | 2. TITLE <u>Thomas Brady</u> | (609)292-9368 | | <u>3/7/80</u> |

III. INSPECTION INFORMATION

| | | | |
|------------------------------------|--|------------------------------|--|
| A. PRINCIPAL INSPECTOR INFORMATION | | B. TITLE | |
| 1. NAME <u>Wayne Howitz</u> | 2. ORGANIZATION <u>Thomas Brady</u> | Env. Spec. & Principal Tech. | 4. TELEPHONE NO. (area code & no.) <u>(609)292-9368</u> |

| | | |
|----------------------------|-----------------|------------------|
| B. INSPECTION PARTICIPANTS | | |
| 1. NAME | 2. ORGANIZATION | 3. TELEPHONE NO. |
| | | |
| | | |
| | | |

| | | |
|--|--------------------------|--------------------------------|
| C. THE REPRESENTATIVES INTERVIEWED (include officials, workers, residents) | | |
| 1. NAME | 2. TITLE & TELEPHONE NO. | 3. ADDRESS |
| <u>D.C. Dieterich</u> | Plant Manager | 1500 Pine Street, Camden, N.J. |
| | | |
| | | |
| | | |
| | | |

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

| | | | | |
|----------------------------------|--|---|--------------------------|--|
| PHOTOS | | None | 2. PHOTOS IN CUSTODY OF: | |
| 1. TYPE OF PHOTOS | | | | |
| 1. a. GROUND | | <input checked="" type="checkbox"/> b. AERIAL | | |
| 2. SITE MAPPED? | | | | |
| 3. YES, SPECIFY LOCATION OF MAPS | | No | | |
| 4. COORDINATES | | | | |
| 1. LATITUDE (deg.-min.-sec.) | | 2. LONGITUDE (deg.-min.-sec.) | | |
| 40° 56' 13" (UTMH 490.8) | | 75° 06' 31" (UTMV 442.0) | | |

V. SITE INFORMATION

| | | |
|--|--|--|
| 1. SITE STATUS | | |
| <input checked="" type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequent) | | |
| <input type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes) | | |
| <input type="checkbox"/> 3. OTHER (Specify) (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred) | | |
| 4. IS GENERATOR ON SITE? | | |
| <input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (Specify generator's four-digit SIC Code) <u>2816</u> | | |
| 5. AREA OF SITE (in acres) | | D. ARE THERE BUILDINGS ON THE SITE? |
| 75 Acres | | <input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (Specify) <u>Monsanto's Plant Operations</u> |

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

| A. TRANSPORTER | X | B. STORER | X | C. TREATER | X | D. DISPOSER |
|---------------------|-------------------------------------|------------------------|-------------------------------------|---------------------------|-------------------------------------|--------------------------|
| 1. MAIL | | 1. PILE | | 1. FILTRATION | | 1. LANDFILL |
| 2. SHIP | <input checked="" type="checkbox"/> | 2. SURFACE IMPOUNDMENT | <input checked="" type="checkbox"/> | 2. INCINERATION | | 2. LANDFARM |
| 3. RAIL | | 3. TANK | | 3. VOLUME REDUCTION | | 3. OPEN DUMP |
| 4. TRUCK | <input checked="" type="checkbox"/> | 4. TANK - ABOVE GROUND | | 4. RECYCLING/RECOVERY | | 4. SURFACE IMPOUNDMENT |
| 5. PIPE LINE | | 5. TANK - BELOW GROUND | | 5. CHEM/PHYS TREATMENT | | 5. MIDNIGHT DUMPING |
| 6. OTHER (Specify): | | 6. OTHER (Specify): | | 6. BIOLOGICAL TREATMENT | | 6. INCINERATION |
| | | | | 7. WASTE OIL REPROCESSING | | 7. UNDERGROUND INJECTION |
| | | | | 8. SOLVENT RECOVERY | <input checked="" type="checkbox"/> | 8. OTHER (Specify): |
| | | | | 9. OTHER (Specify): | | Scrub Settling pond. |

SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this form.

| | | | | |
|----------------------------|--|---|--|---|
| 1. STORAGE | <input type="checkbox"/> 2. INCINERATION | <input checked="" type="checkbox"/> 3. LANDFILL | <input checked="" type="checkbox"/> 4. SURFACE IMPOUNDMENT | <input type="checkbox"/> 5. DEEP WELL |
| 6. CHEM/BIO/PHYS TREATMENT | <input type="checkbox"/> 7. LANDFARM | <input type="checkbox"/> 8. OPEN DUMP | <input type="checkbox"/> 9. TRANSPORTER | <input type="checkbox"/> 10. RECYCLER/RECLAIMER |

VII. WASTE RELATED INFORMATION

| | | | |
|---|--|---|---|
| WASTE TYPE | | | |
| 1. LIQUID | <input checked="" type="checkbox"/> 2. SOLID | <input type="checkbox"/> 3. SLUDGE | <input type="checkbox"/> 4. GAS |
| WASTE CHARACTERISTICS | | | |
| 1. CORROSIVE | <input type="checkbox"/> 2. IGNITABLE | <input type="checkbox"/> 3. RADIOACTIVE | <input type="checkbox"/> 4. HIGHLY VOLATILE |
| <input checked="" type="checkbox"/> 5. TOXIC | <input type="checkbox"/> 6. REACTIVE | <input type="checkbox"/> 7. INERT | <input type="checkbox"/> 8. FLAMMABLE |
| <input checked="" type="checkbox"/> 9. OTHER (Specify): | | | |
| WASTE CATEGORIES | | | |
| 1. Are records of wastes established? Specify items such as manifests, inventories, etc. below. | | | |

Yes, N.J. SWA's Manifest

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

A. HUMAN HEALTH HAZARDS

No.

C. NON-WORKER INJURY/EXPOSURE

None

C. WORKER INJURY/EXPOSURE

None

D. CONTAMINATION OF WATER SUPPLY

E. CONTAMINATION OF FOOD CHAIN

Very likely, the plant is adjacent to the Cooper River.

F. CONTAMINATION OF GROUND WATER

G. CONTAMINATION OF SURFACE WATER

Monsanto's scrub settling pond is adjacent to the Cooper River.

I. DAMAGE TO FLORA/FAUNA

N/A

J. FISH KILL

None reported to date.

J. CONTAMINATION OF AIR

N/A

K. NOTICEABLE ODORS

L. CONTAMINATION OF SOIL

Scrub settling pond is not lined

M. PROPERTY DAMAGE

None

HAZARD DESCRIPTION (continued)

H. FIRE OR EXPLOSION

No

I. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

No

J. SEWER, STORM DRAIN PROBLEMS

No

K. EROSION PROBLEMS

No

L. INADEQUATE SECURITY

No

M. INCOMPATIBLE WASTES

No

VIII. HAZARD DESCRIPTION (continued)

1. MIDNIGHT DUMPING

2. OTHER (specify)

IX. POPULATION DIRECTLY AFFECTED BY SITE

| A. LOCATION OF POPULATION | B. APPROX. NO. OF PEOPLE AFFECTED | C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA | D. APPROX. NO. OF BUILDINGS AFFECTED | E. DISTANCE TO SITE (specify units) |
|--|-----------------------------------|--|--------------------------------------|-------------------------------------|
| 1. IN RESIDENTIAL AREAS | Less than 100 | Less than 100 | Housing development is 2 blocks away | |
| 2. IN COMMERCIAL OR INDUSTRIAL AREAS | | | | |
| 3. IN HIGHLY TRAVELED AREAS | | | | |
| 4. PUBLIC USE AREAS (MARKS, BEACHES, ETC.) | Junior High is Adjacent to Plant | | | |

X. WATER AND HYDROLOGICAL DATA

| A. DEPTH TO GROUNDWATER (specify units) | B. DIRECTION OF FLOW | C. GROUNDWATER USE IN VICINITY |
|---|---|---------------------------------------|
| 6' | S.W. | |
| D. POTENTIAL YIELD OF AQUIFER | E. DISTANCE TO DRINKING WATER SUPPLY (specify units of measure) | F. DIRECTION TO DRINKING WATER SUPPLY |
| G. TYPE OF DRINKING-WATER SUPPLY | | |

1. NON-COMMUNITY
 IS CONNECTIONS
2. COMMUNITY (specify town)
 IS CONNECTIONS Camden City
3. SURFACE WATER
4. WELL

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1.6 MILE RADIUS OF SITE

| 1. WELL | 2. DEPTH (specify unit) | 3. LOCATION (proximity to population/buildings) | 4. NON-COM- MUNITY (mark 'X') | 5. COMMUN- ITY (mark 'X') |
|---------|----------------------------|--|-------------------------------------|---------------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

RECEIVING WATER

1. NAME
Cooper River 2. SEWERS 3. STREAMS/RIVERS 4. LAKES/RESERVOIRS 5. OTHER (specify)

G. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Tidal Water II (According to the DEP surface water quality standards.)

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN

 A. KNOWN FAULT ZONE B. KARST ZONE C. 100 YEAR FLOOD PLAIN D. WETLAND E. A REGULATED FLOODWAY F. CRITICAL HABITAT G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

| A. OVERBURDEN | X | B. BEDROCK (specify below) | X' | C. OTHER (specify below) |
|---------------|---|----------------------------|----|--------------------------|
| 1. SAND | | | | |
| 2. CLAY | | | | |
| 3. GRAVEL | | | | |

XIII. SOIL PERMEABILITY

| | | | |
|--------------------------------|-------------------------------------|---|---|
| 1. UNKNOWN | <input type="checkbox"/> | E. VERY HIGH (.100,000 to 1000 cm/sec.) | <input type="checkbox"/> C. HIGH (1000 to 10 cm/sec.) |
| X. MODERATE (.10 to 1 cm/sec.) | <input checked="" type="checkbox"/> | F. LOW (.1 to .001 cm/sec.) | <input type="checkbox"/> F. VERY LOW (.001 to .00001 cm/sec.) |

G. RECHARGE AREA

1. YES 2. NO 3. COMMENTS _____

H. DISCHARGE AREA

1. YES 2. NO 3. COMMENTS _____

I. SLOPE

1. ESTIMATE % OF SLOPE 2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC. _____

10%

J. OTHER GEOLOGICAL DATA

C

XIV. PERMIT INFORMATION

List all applicable permits held by [REDACTED] and provide the related information.

| A. PERMIT TYPE [REDACTED] | B. ISSUING AGENCY [REDACTED] | C. PERMIT NUMBER [REDACTED] | D. DATE ISSUED [REDACTED] | E. EXPIRATION DATE [REDACTED] | F. IN COMPLIANCE (mark 'X') | | |
|------------------------------|---------------------------------|--------------------------------|------------------------------|----------------------------------|--------------------------------|------------|------------|
| | | | | | 1. YES | 2. NO | 3. UNKNOWN |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

[] NONE [] YES (summarize in this space)

25011 Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

Notification of Hazardous Waste**F Waste Quantity:**

- Place an X in the appropriate boxes to indicate the facility types found at the site. In the "total facility waste amount" space give the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons.

In the "total facility area" space, give the estimated area size which the facilities occupy using square feet or acres.

Side Two**Facility Type**

- Piles
- Land Treatment
- Landfill
- Tanks
- Impoundment
- Underground Injection
- Drums, Above Ground
- Drums, Below Ground
- Other (Specify)

Total Facility Waste Amount

cubic feet 1140

gallons

Total Facility Area

square feet 42,250

acres

G Known, Suspected or Likely Releases to the Environment:

Place an X in the appropriate boxes to indicate any known, suspected, or likely releases of wastes to the environment.

Known Suspected Likely None
Don't Know

Note: Items Hand I are optional. Completing these items will assist EPA and State and local governments in locating and assessing hazardous waste sites. Although completing the items is not required, you are encouraged to do so.

H Sketch Map of Site Location: (Optional)

Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location.

(Attached)

I Description of Site: (Optional)

Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.

J Signature and Title:

The person or authorized representative (such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address (if different than address in item A). For other persons providing notification, the signature is optional. Check the boxes which best describe the relationship to the site of the person required to notify. If you are not required to notify check "Other".

Name D. C. Dieterich

Owner, Present

Owner, Past

Transporter

Operator, Present

Operator, Past

Other

Street 1500 Pine Street

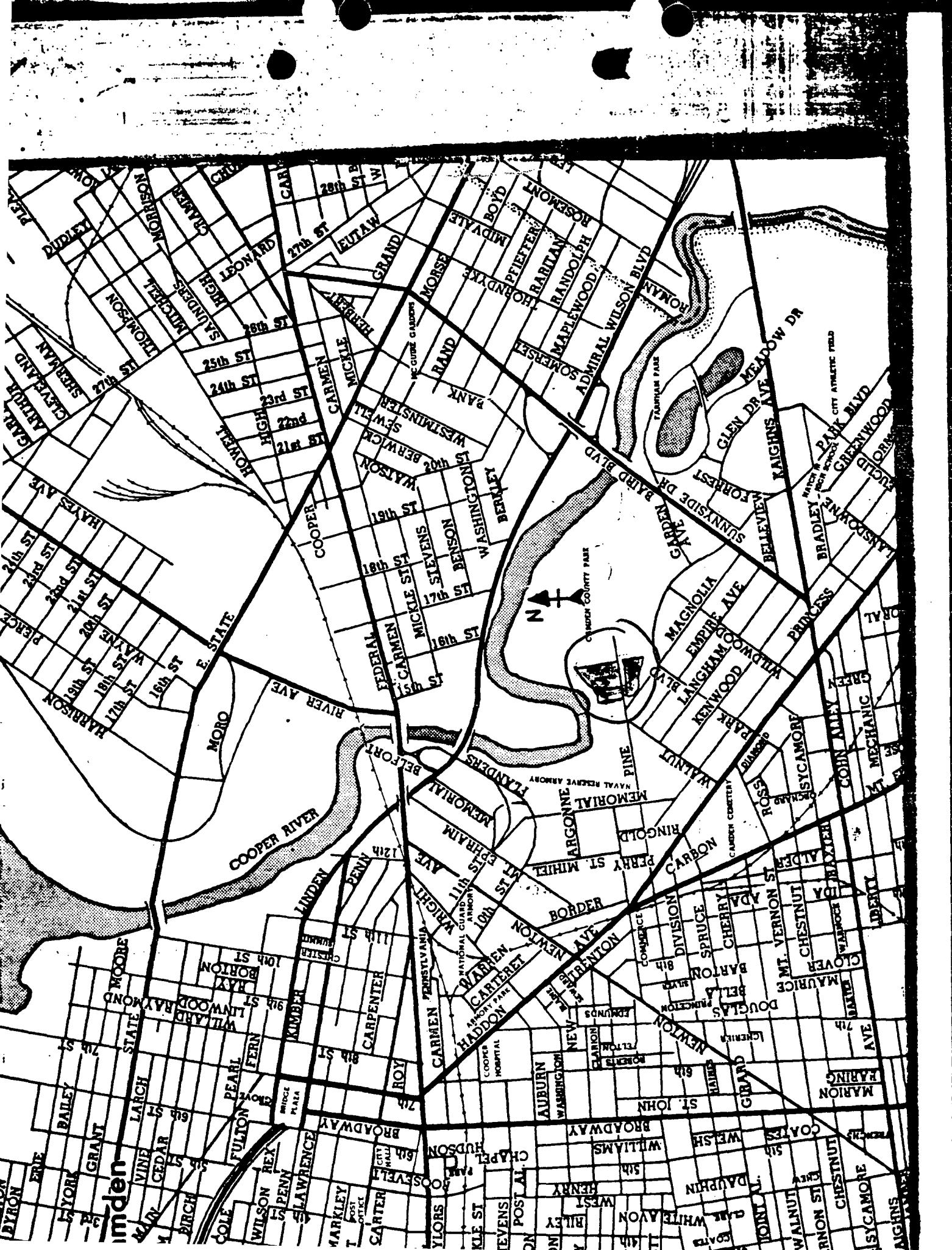
City Camden State NJ Zip Code 08103

Signature D. C. Dieterich

Date

6/5/81

D





POTENTIAL HAZARDOUS WASTE SITE
IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION: SITE NUMBER (to be assigned by HQ)
II NJ00010093

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

| | | | |
|----------------------------------|--|-----------------------------|---------------------------------|
| A. SITE NAME MONSANTO | B. STREET (or other identifier) 1500 Pine Street | | |
| C. CITY CAMDEN | D. STATE NJ | E. ZIP CODE 08013 | F. COUNTY NAME CAMDEN |
| G. OWNER/OPERATOR (if known) | 2. TELEPHONE NUMBER (609)-963-0243 | | |
| 1. NAME D.C. Dieterich | | | |
| H. TYPE OF OWNERSHIP | <input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE <input type="checkbox"/> 6 UNKNOWN | | |

I. SITE DESCRIPTION

25 acre Industrial Chemical complex

| | |
|---|-------------------------------------|
| J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.) NJDEP SITE VISIT | K. DATE IDENTIFIED 3-7-80 |
|---|-------------------------------------|

| | | |
|----------------------------|--|--|
| L. PRINCIPAL STATE CONTACT | 1. NAME Thomas Brady /Bob Reed | 2. TELEPHONE NUMBER (609)-292-9120 |
|----------------------------|--|--|

II. PRELIMINARY ASSESSMENT (complete this section last)

| | |
|------------------------------------|--|
| A. APPARENT SERIOUSNESS OF PROBLEM | <input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input checked="" type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE <input type="checkbox"/> 5 UNKNOWN |
| B. RECOMMENDATION | <input type="checkbox"/> 1. NO ACTION NEEDED (no hazard) |
| | <input type="checkbox"/> 2. IMMEDIATE SITE INSPECTION NEEDED |
| | <input type="checkbox"/> B. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: b. WILL BE PERFORMED BY: d. 4. SITE INSPECTION NEEDED (low priority) |

| | | | |
|-------------------------|---------------------------------|--|---|
| C. PREPARER INFORMATION | 1. NAME Richard RAMON | 2. TELEPHONE NUMBER (212)-269-1573 | 3. DATE (mo., day, & yr.) 6-12-80 |
|-------------------------|---------------------------------|--|---|

III. SITE INFORMATION

| | | | |
|--------------------------|--|--|--|
| A. SITE STATUS | <input checked="" type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if temporarily.) | <input type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes.) | <input type="checkbox"/> 3. OTHER (specify): (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.) |
| B. IS GENERATOR ON SITE? | <input type="checkbox"/> 1. NO | <input checked="" type="checkbox"/> 2. YES (specify generator's four-digit SIC Code): 2816 | |

| | | | |
|---|---|---|--|
| C. AREA OF SITE (in acres) 25 | D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES | | |
| | 1. LATITUDE (deg.-min.-sec.) 40° 56' 13" | 2. LONGITUDE (deg.-min.-sec.) 75° 06' 31" | |

| | | | |
|-------------------------------------|--------------|--|--|
| E. ARE THERE BUILDINGS ON THE SITE? | ATT D | | |
|-------------------------------------|--------------|--|--|

IV. CHARACTERIZATION OF SITE ACTIVITIES

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

| X' | A. TRANSPORTER | X' | B. STORER | X' | C. TREATER | X' | D. DISPOSER |
|---------------------|----------------|----|------------------------|----|---------------------------|----|--------------------------|
| 1. RAIL | | | 1. PILE | | 1. FILTRATION | | 1. LANDFILL |
| 2. SHIP | | | 2. SURFACE IMPOUNDMENT | | 2. INCINERATION | | 2. LANDFARM |
| 3. BARGE | | | 3. DRUMS | | 3. VOLUME REDUCTION | | 3. OPEN DUMP |
| 4. TRUCK | | | 4. TANK, ABOVE GROUND | | 4. RECYCLING/RECOVERY | | 4. SURFACE IMPOUNDMENT |
| 5. PIPELINE | | | 5. TANK, BELOW GROUND | | 5. CHEM./PHYS. TREATMENT | | 5. MIDNIGHT DUMPING |
| 6. OTHER (specify): | | | 6. OTHER (specify): | | 6. BIOLOGICAL TREATMENT | | 6. INCINERATION |
| | | | | | 7. WASTE OIL REPROCESSING | | 7. UNDERGROUND INJECTION |
| | | | | | 8. SOLVENT RECOVERY | | 8. OTHER (specify): |
| | | | | | 9. OTHER (specify): | | Scrub settling PEN |

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

V. WASTE RELATED INFORMATION

A. WASTE TYPE

1. UNKNOWN 2. LIQUID 3. SOLID 4. SLUDGE 5. GAS

B. WASTE CHARACTERISTICS

1. UNKNOWN 2. CORROSIVE 3. IGNITABLE 4. RADIOACTIVE 5. HIGHLY VOLATILE
 6. TOXIC 7. REACTIVE 8. INERT 9. FLAMMABLE

 10. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

2. Estimate the amount(specify unit of measure)of waste by category; mark 'X' to indicate which wastes are present.

| a. SLUDGE | b. OIL | c. SOLVENTS | d. CHEMICALS | e. SOLIDS | f. OTHER |
|----------------------------|------------------------|---------------------------------|-------------------------|----------------------------------|-----------------------------------|
| AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT | AMOUNT |
| UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE |
| 'X' (1) PAINT, PIGMENTS | 'X' (1) OILY WASTES | 'X' (1) HALOGENATED SOLVENTS | 'X' (1) ACIDS | 'X' (1) FLYASH | 'X' (1) LABORATORY PHARMACEUT. |
| (2) METALS SLUDGES | (2) OTHER(specify): | (2) NON-HALOGENATED SOLVENTS | (2) PICKLING LIQUORS | (2) ASBESTOS | (2) HOSPITAL |
| (3) POTW | | (3) OTHER(specify): | (3) CAUSTICS | (3) MILLING/ MINE TAILINGS | (3) RADIOACTIVE |
| (4) ALUMINUM SLUDGE | | | (4) PESTICIDES | (4) FERROUS SMLTG. WASTES | (4) MUNICIPAL |
| (5) OTHER(specify): | | | (5) DYES/INKS | (5) NON-FERROUS SMLTG. WASTES | (5) OTHER(specify): |
| | | | (6) CYANIDE | | |
| | | | (7) PHENOLS | | |
| | | | (8) HALOGENS | | |
| | | | (9) PCB | | |
| | | | (10) METALS | | |
| | | | (11) OTHER(specify) | | |

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).
- Camp black

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

VI. HAZARD DESCRIPTION

| A. TYPE OF HAZARD | B. POTENTIAL HAZARD (mark 'X') | C. ALLEGED INCIDENT (mark 'X') | D. DATE OF INCIDENT (mo., day, yr.) | E. REMARKS |
|--|-----------------------------------|-----------------------------------|--|--|
| 1. NO HAZARD | | | | |
| 2. HUMAN HEALTH | | | | |
| 3. NON-WORKER INJURY/EXPOSURE | | | | |
| 4. WORKER INJURY | | | | |
| 5. CONTAMINATION OF WATER SUPPLY | | | | |
| 6. CONTAMINATION OF FOOD CHAIN | | | | |
| 7. CONTAMINATION OF GROUND WATER | | | | |
| 8. CONTAMINATION OF SURFACE WATER | X | | | SCRUB settling plant is adjacent to the Cooper River |
| 9. DAMAGE TO FLORA/FAUNA | | | | |
| 10. FISH KILL | | | | |
| 11. CONTAMINATION OF AIR | | | | |
| 12. NOTICEABLE ODORS | | | | |
| 13. CONTAMINATION OF SOIL | X | | | Scrub settling pond is not lined |
| 14. PROPERTY DAMAGE | | | | |
| 15. FIRE OR EXPLOSION | | | | |
| 16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS | | | | |
| 17. SEWER, STORM DRAIN PROBLEMS | | | | |
| 18. EROSION PROBLEMS | | | | |
| 19. INADEQUATE SECURITY | | | | |
| 20. INCOMPATIBLE WASTES | | | | |
| 21. MIDNIGHT DUMPING | | | | |
| 22. OTHER (specify): | | | | |

VII. PERMIT INFORMATION**A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.**

- | | | |
|--|--|---|
| <input type="checkbox"/> 1. NPDES PERMIT | <input type="checkbox"/> 2. SPCC PLAN | <input type="checkbox"/> 3. STATE PERMIT (specify): _____ |
| <input type="checkbox"/> 4. AIR PERMITS | <input type="checkbox"/> 5. LOCAL PERMIT | <input type="checkbox"/> 6. RCRA TRANSPORTER |
| <input type="checkbox"/> 7. RCRA STORER | <input type="checkbox"/> 8. RCRA TREATER | <input type="checkbox"/> 9. RCRA DISPOSER |

 10. OTHER (specify): _____**B. IN COMPLIANCE?**

- | | | |
|---------------------------------|--------------------------------|-------------------------------------|
| <input type="checkbox"/> 1. YES | <input type="checkbox"/> 2. NO | <input type="checkbox"/> 3. UNKNOWN |
|---------------------------------|--------------------------------|-------------------------------------|

4. WITH RESPECT TO (list regulation name & number): _____

VIII. PAST REGULATORY ACTIONS

- | | |
|----------------------------------|---|
| <input type="checkbox"/> A. NONE | <input type="checkbox"/> B. YES (summarize below) |
|----------------------------------|---|

IX. INSPECTION ACTIVITY (past or on-going)

- | | |
|----------------------------------|--|
| <input type="checkbox"/> A. NONE | <input checked="" type="checkbox"/> B. YES (complete items 1, 2, 3, & 4 below) |
|----------------------------------|--|

| 1. TYPE OF ACTIVITY | 2 DATE OF PAST ACTION (mo., day, & yr.) | 3 PERFORMED BY: (EPA/State) | 4. DESCRIPTION |
|---------------------|--|--------------------------------|----------------|
| SITE VISIT | 3-7-80 | State | |
| | | | |
| | | | |
| | | | |

X. REMEDIAL ACTIVITY (past or on-going)

- | | |
|----------------------------------|---|
| <input type="checkbox"/> A. NONE | <input type="checkbox"/> B. YES (complete items 1, 2, 3, & 4 below) |
|----------------------------------|---|

| 1. TYPE OF ACTIVITY | 2. DATE OF PAST ACTION (mo., day, & yr.) | 3. PERFORMED BY: (EPA/State) | 4. DESCRIPTION |
|---------------------|---|---------------------------------|----------------|
| | | | |
| | | | |
| | | | |
| | | | |

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.

D

ATTACHMENTS

MAPS

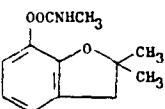
1. USGS QUADRANGLE MAP
2. SITE MAP
3. TAX MAP
4. N.J. ATLAS BASE MAP
5. GEOLOGIC OVERLAY
6. WATER SUPPLY OVERLAY
7. WATER WITHDRAWAL MAP

ATTACHMENTS

- A. STACK LOG LISTING
- B. LETTER RE: CLASSIFICATION OF LAMPBLACK
- C. EPA SITE INSPECTION REPORT
- D. EPA PRELIMINARY ASSESSMENT
- E. MERCK INDEX DESCRIPTION OF LAMPBLACK
- F. SAX DESCRIPTION OF LAMPBLACK
- G. CHEMICAL SAMPLES & ANALYTICAL SVCS CO. ANALYTICAL DATA

Carbohydrazide

N 6.33%, O 21.69%. Prepn and use as insecticide: Orwell, Sharp, U.S. pat. 3,356,690; 3,474,170-1 (1967, 1969, to FMC); Heiss et al., U.S. pat. 3,470,299 (1969 to Bayer).



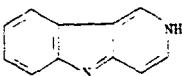
White crystalline solid, mp 150-153°. Soln in water at 25°: 700 ppm. Unstable in alk. LD₅₀ orally in rats: 8 mg/kg. *Toxic Substances List*, H. E. Christensen, Ed. (1974) p 180.

USE: Systemic insecticide, acaricide, nematocide. Caution: Cholinesterase inhibitor.

1809. Carbohydrazide. *Carbonic dihydrazide*; 1,3-diaminourea. CH₆N₄O; mol wt 90.09. C 13.33%, H 6.71%, N 62.20%, O 17.76%. NH₂NHCONHNH₂. Prepd by refluxing diethyl carbonate with hydrazine hydrate: Mohr et al., *Inorg. Syn.* 4, 32 (1953).

Crystals from water + ethanol, dec 153-154°. Freely sol in water. pH of 1% aq soln about 7.4. Practically insol in alcohol, ether, chloroform, benzene. Forms salts with acids. With nitrous acid it forms the highly explosive carbonyl azide CO(N₃)₂.

1810. γ -Carboline. *5H-Pyrido[4,3-b]indole; 2H-pyrido[4,3-b]indole; 5-carboline*. C₁₁H₈N₂; mol wt 168.19. C 78.55%, H 4.79%, N 16.66%. Prepn: Robinson, Thorneley, *J. Chem. Soc.* 125, 2169 (1924). Prepn of derivs: Hörllein, *Ber.* 87, 463 (1954).



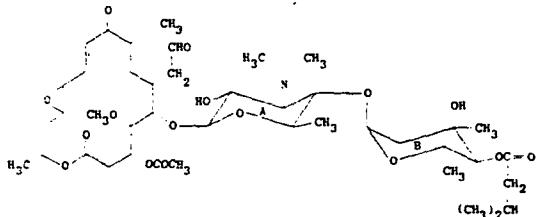
Monoclinic needles from water, mp 225°. d 1.352. Can be distilled at atmospheric pressure without dec. Strong base. Freely sol in methanol; somewhat less sol in ethanol. Slightly sol in benzene, water.

Picrate, yellow needles, mp 250°.

1811. Carbolineum®. A brand of chlorinated anthracene oil (coal tar fraction).

USE: To spray hen houses in the control of chicken mites; as wood preservative; against termites.

1812. Carbomycin A. *9-Deoxy-12,13-epoxy-9-oxoleucamycin V 3-acetate 4 β -(3-methylbutanoate)*; M-4209; Magnamycin. C₄₂H₆₇NO₁₆; mol wt 841.97. C 59.91%, H 8.02%, N 1.66%, O 30.40%. Antibiotic substance produced by *Streptomyces halstedii*: Tanner et al., *Antibiot. & Chemother.* 2, 441 (1952). Isoln: Friedman et al., U.S. pat. 2,960,438 (1960 to Pfizer). Carbomycin A is a 16-membered lactone linked to a disaccharide, mycaminose (q.v.) and mycarose (q.v.). The lactone and mycaminose form carimbose. Structure: Kuehne, Benson, *J. Am. Chem. Soc.* 87, 4660 (1965); Woodward et al., *ibid.* 4662. Absolute configuration: Cramer, *ibid.* 88, 5028 (1966). Reviews: Vazquez, in *Antibiotics* Vol. 1, D. Gottlieb, P. D. Shaw, Eds. (Springer-Verlag, New York, 1967) pp 366-377; Keller-Schierlein in *Fortschr. Chem. Org. Naturst.* 30, 314-460 (1973).



Blunt needles from ethanol, mp 214°. [α]_D²⁵ - 58.6° (chloroform). uv max (abs ethanol): 238, 327 nm (E_{1cm} 185, 0.9). Carbomycin standard is the free base having a potency of 1080 units/mg. For stability of soln data see *Antibiot.* &

Chemother. 3, 865 (1953). Weak base, pK_b 7.2. Solubility determined by Weiss et al., *Antibiot. & Chemother.* 7, 37 (1957) in mg/ml at about 28°: Water 0.295; methanol > 20. LD₅₀ i.v. in mice: 550 mg/kg.

THERAP CAT: Antibiotic.

THERAP CAT (VET): Antimicrobial.

1813. Carbon. C: at. wt 12.01115; at. no. 6; valence 4. Stable isotopes: 12 (98.892%); 13 (1.108%); radioactive isotopes: 9-11; 14-16. Abundance in earth's crust: approx. 0.027%. Cosmic abundance: 6 atoms/atom Si. Occurs in forms: (1) Diamond (q.v.); (2) Graphite (q.v.) or black lead (3) Amorphous carbon such as coal, lampblack, and the various forms of artificial carbon. Comprehensive reviews: P. L. Walker, *Am. Scientist* 50, 259-293 (June 1962); Holliday et al. in *Comprehensive Inorganic Chemistry* vol. 1, J. C. Bailar, Jr. et al., Eds. (Pergamon Press, Oxford, 1973) pp 1173-1294.

¹⁴C isotope, continuously formed in the earth's atm by the bombardment of nitrogen with cosmic neutrons according to the reaction ¹⁴N + ¹n → ¹⁴C + ¹H. The ¹⁴C is rapidly oxidized to CO₂; in this form it penetrates into animals and plants by photosynthesis and metabolism. The ¹⁴C content of living matter is estimated at 15.3 disintegrations per minute and per gram of carbon, corresponding to the equilibrium reached between formation of ¹⁴C and its exchange with ¹²C. This equilibrium stops when the plant or animal dies, and the ¹⁴C content begins to decrease, because the ¹⁴C decays with a half-life of 5760 years. This fact can be used to date organic matter (not more than 40,000 years old) by comparison with the standard 15.3 disintegrations per min per gram: M. Haissinsky, J. P. Adloff, *Radiochemical Survey of the Elements* (Elsevier, New York, 1965) pp 30-32.

1814. Carbon, Amorphous. Carbon black; carbon, activated; carbon, decolorizing. A quasi-graphitic form of carbon of small particle size. By the term "carbon black" several forms of artificially prepared carbon or charcoal are designated, e.g.: (1) *Animal charcoal*, obtained by charring bones, meat, blood, etc.; (2) *Gas black; furnace black; channel black*: obtained by incomplete combustion of natural gas; (3) *Lamp black*, obtained by burning various fats, oils, resins, etc., under suitable conditions; (4) *Activated charcoal*, e.g. *Carboraffin, Norit, Opocarbly, Ultracarbon*, prepd from wood and vegetables. Monograph: H. W. Davidson et al., *Manufactured Carbon* (Pergamon Press, New York, 1968). Reviews: Cohan in *Science of Petroleum* vol. V, Pt 2. B. T. Brooks, A. E. Dunstan, Eds. (Oxford Univ. Press, 1953), pp 79-89; Smisek, Cerny, *Active Carbon* (Elsevier Publishing Co., Amsterdam, 1970).

USE: Number (4), e.g. Norit, Carboraffin, is used chiefly for clarifying, deodorizing, decolorizing and filtering. The others are used as a pigment for rubber tires; for printing, stenciling and drawing inks; for leather; stove polish, phonograph records, electrical insulating apparatus. Activate charcoal (from the destructive distillation of various organic materials) is used in medicine, e.g. Opocarbly; Norit; Ultra carbon.

THERAP CAT: Activated charcoal as antidote; adsorptive.

THERAP CAT (VET): Internally as an adsorptive in diarrhoea externally in foul wounds.

1815. Carbon Dioxide. Carbonic acid gas; carbonic acid. CO₂; mol wt 44.01. C 27.29%, O 72.71%. Occurs in the atmos of many planets. In our solar system, e.g., Venus, the optical layer thickness due to CO₂ is 100.0 cm/atm. but only 220 cm/atm on Earth. Analyses of air the temperate zones of the Earth show 0.027 to 0.036% (v/v) of CO₂; G. P. Kuiper, *The Atmospheres of the Earth and Planets* (Univ. of Chicago Press, 1949); Landolt-Bornstein Zahlenwerte vol. III (Springer-Verlag, 6th ed., 1952) pp 584 and 585. Constituent of carbonate type of minerals; products of animal metabolism. Necessary for the respiration cycle of plants and animals. Obtained industrially as by-product in the manuf of lime during the "burning" limestone (CaCO₃). Also produced by burning coke other carbonaceous material. In the U.S.A. large amounts are produced by fermentation (Backus process and Re process). When glucose is fermented by yeast, the chief products are ethyl alcohol and CO₂. Prepd in the laborat by dropping acid on a carbonate: E. H. Archibald,

ATT. E

THR: HIGH scu. MOD ivn and ims.

Disaster Hazard: When heated to decomp it emits tox fumes of NO_x.

CARBON

CAS RN: 7440440
mf: C; mw: 12.01

Black crystals, powder or diamond form. mp: 3652°-3697° (subl), bp: approx 4200°, d(amorphous): 1.8-2.1, d(graphite): 2.25, d(diamond): 3.51, vap. press: 1 mm @ 3586°.

SYNS:

BLACK PEARLS
COLUMBIAN CARBON
CARBONE (ITALIAN)

NIOSH #: FF 5250000

CHARCOAL BLACK
C.I. 77266
PURIFIED CHARCOAL

TOXICITY DATA: 3-2
scu-rat TDLo: 167 mg/kg (8D preg)
ivn-mus LD50: 440 mg/kg

CODEN:
TJADAB 4,327,71
TXAPA9 24,497,73

TLV: Air: 3.5 mg/m³ DTLVS* 4,68,80.

OSHA Standard: Air: TWA 3500 ug/m³ (SCP-R) FER-EAC 39,23540,74. Occupational Exposure to Carbon Black recm std: Air: TWA 3.5 mg/m³ NTIS**. "NIOSH Manual of Analytical Methods" VOL 3 S262. Reported in EPA TSCA Inventory, 1980.

THR: MOD ivn. Powder elemental C is mainly a nuisance dust and slightly irr in the form of graphite (one of the common forms of carbon), it can cause a dust irritation, particularly to the eyes. Carbon also occurs in the form of soot, carbon black. It can also cause conjunctivitis epithelial hyperplasia of cornea, as well as eczematous inflammation of eyelids. Some forms of carbon dust can cause irr of eyes and mu mem. See also carbon black, soot.

Fire Hazard: Slight, when exposed to heat.

Explosion Hazard: In the form of dust when exposed to heat or flame or (NH₄NO₃ + heat), (NH₄ClO₄ @ 240°), bromates, Ca(OCl)₂, chlorates, Cl₂, (Cl₂ + Cr(OCl)₂), ClO, F₂, iodates, IO₅, (Pb(NO₃)₂, HgNO₃, HNO₃, (oils + air), (K + air), Na₂S, Zn(NO₃)₂.

Incomp: air; metals; oxidants; unsaturated oils.

CARBON BLACK

A generic term applied to a family of high-purity colloidal carbons commercially produced by carefully controlled pyrolysis of gaseous or liquid hydrocarbons. Carbon blacks, including commercial colloidal carbons such as furnace blacks, lamp blacks and acetylene blacks, usually contain less than several tenths percent of extractible organic matter and less than one percent ash.

SYNS:

LAMP BLACK
ACETYLENE BLACK

FURNACE BLACK

THR: LOW skn, ihl, orl. See also carbon. According to studies on laboratory test animals, as well as retrospective studies of employees in the carbon black industry, there are no physiologic effects from contact, inha-

lation or ingestion of carbon black. The only untoward effect of carbon black upon the environment is that in high concentrations it becomes a nuisance dust. While it is true that the tiny particulates of carbon black contain some molecules of carcinogenic materials, the carcinogens are apparently held tightly and are not eluted by hot or cold water, gastric juices or blood plasma.

Refs: Nau, C. A., Taylor, G. T., Lawrence, C. H., Properties and Physiological Effects of Thermal Carbon Black. *Journal of Occupational Medicine*. Nov. 1976, Vol 18, No. 11, pp. 732-734.

Nau, C. A., Neal, J., Stemberger, V. A., A Study of the Physiological Effects of Carbon Black. *Archives of Environmental Health*, Dec. 1960, Vol. 1, pp. 512-533, American Medical Association.

CARBONCHLORIDIC ACID PHENYL ESTER

CAS RN: 1885149
mf: C₇H₅ClO₂; mw: 156.57

NIOSH #: FG 3850000

SYNS:

FENYLESTER KYSELINY CHLORM- RAVENCI (CZECH) PHENYL CHLOROFORMATE

| | | |
|--------------------------|-----|------------------|
| TOXICITY DATA: | 3-2 | CODEN: |
| skn-rbt 500 mg/24H MOD | | 28ZPAK ,163,72 |
| eye-rbt 50 ug/24H SEV | | 28ZPAK ,163,72 |
| orl-rat LD50: 1410 mg/kg | | AIHAAP 30,470,69 |
| ihl-rat LCLo: 44 ppm/4H | | AIHAAP 30,470,69 |
| skn-rbt LD50: 3970 mg/kg | | AIHAAP 30,470,69 |

Reported in EPA TSCA Inventory, 1980.

THR: HIGH ihl. MOD orl, skn. A skn, eye irr. See also esters.

Disaster Hazard: When heated to decomp it emits tox fumes of Cl⁻.

CARBON DIOXIDE

CAS RN: 124389
mf: CO₂; mw: 44.01

NIOSH #: FF 6400000

Colorless, odorless gas. mp: subl @ -78.5°, (-56.6° @ 5.2 atm), vap. d: 1.53.

SYNS:

ANHYDRIDE CARBONIQUE (FRENCH)
CARBONIC ACID GAS

CARBONIC ANHYDRIDE
DRY ICE
KOHLENSAURE (GERMAN)

| | | |
|---|---|------------------|
| TOXICITY DATA: | 3 | CODEN: |
| ihl-rat LCLo: 6 ppm/24H (10D preg) | | CIRUAL 8,1218,60 |
| ihl-rbt LCLo: 10 ppm/(7-12D preg) | | ZMOAAN 56,165,65 |
| TFX: TER | | |
| ihl-rbt LCLo: 13 ppm/4H (9-12D preg) | | ZMOAAN 56,165,65 |
| ihl-rat LCLo: 6 ppm/24H/(10D preg): TER | | CIRUAL 8,1218,60 |
| ihl-rbt LCLo: 10 ppm/(7-12D preg): TER | | ZMOAAN 56,165,65 |
| ihl-hmn LCLo: 100000 ppm/1M | | AOHYA3 17,159,74 |
| ihl-rat LCLo: 657190 ppm/15M | | MRLR** No. 23,50 |
| ihl-mam LCLo: 90000 ppm/5M | | AEPPAE 138,65,28 |

TLV: Air: 5000 ppm DTLVS* 4,69,80. *Toxicology Review:* EVHPAZ 11,163,75. **OSHA Standard:** Air: TWA 5000 ppm (SCP-R) FEREAC 39,23540,74. Occupa-

ATT. F

CHEMICAL SAMPLES & ANALYTICAL SVCS CO

CHEM SAMPES/ANALYTICAL SVCS.
 1301 METROPOLITAN AVE. PO BX 514
 THOROFARE, NJ 08086 PHONE (609) 848-7227
 FAX # 1-609-848-9591

LABORATORY ANALYSIS REPORT #710120591

October 26, 1987

Monsanto Company
 Attn.: R. Forsythe
 1500 Pine Street
 Camden, NJ 08103

Sample Date: 10/12/87
 P.O. #K-1847-F
 CSAS Job #710120591

| | |
|----------------------------|---------------------------|
| <u>Sample Designation:</u> | #7101201 - Water/Well #2 |
| #7101202 -Water/Well #4 | #7101203 - Water/Well #6 |
| #7101204 - Water/Well #13 | #7101205 - Water/Well #14 |

| <u>Parameter</u> | <u>7101201</u> | <u>7101202</u> | <u>7101203</u> |
|------------------|----------------|----------------|----------------|
|------------------|----------------|----------------|----------------|

Polynuclear Arom.Hydrocarbons (Meth. 610):

| | | | |
|------------------|-----|-----|-----|
| Naphthalene, ppb | <25 | <25 | <25 |
|------------------|-----|-----|-----|

| | | | |
|-------------------|-----|-----|-----|
| Acenaphthene, ppb | <26 | <26 | <26 |
|-------------------|-----|-----|-----|

| | | | |
|-----------------|------|------|------|
| Anthracene, ppb | <8.2 | <8.2 | <5.8 |
|-----------------|------|------|------|

| | | | |
|-------------------|-----|-----|-----|
| Phenanthrene, ppb | <17 | <17 | <12 |
|-------------------|-----|-----|-----|

| | | | |
|----|------|------|------|
| pH | 6.90 | 6.40 | 6.40 |
|----|------|------|------|

| | | | |
|--|---------------|-------------|---------------|
| Dept.n (TopWell-Top Water/TopWell-Bot. Well) | 33.1/ 38.3 | 24.8/ 58 | 23.2/ 45.4 |
|--|---------------|-------------|---------------|

| <u>7101204</u> | <u>7101205</u> |
|----------------|----------------|
|----------------|----------------|

Polynuclear Arom.Hydro-carbons (Meth 610):

| | | |
|------------------|-----|-----|
| Naphthalene, ppb | <25 | <32 |
|------------------|-----|-----|

| | | |
|-------------------|-----|-----|
| Acenaphthene, ppb | <26 | <34 |
|-------------------|-----|-----|

| | | |
|-----------------|------|-------|
| Anthracene, ppb | <7.2 | <10.6 |
|-----------------|------|-------|

| | | |
|-------------------|-----|-----|
| Phenanthrene, ppb | <15 | <23 |
|-------------------|-----|-----|

| | | |
|----|-----|------|
| pH | 7.0 | 6.90 |
|----|-----|------|

| | | |
|---|---------------|---------------|
| Depth (TopWell-TopWater/ TopWell-Bot.Well) | 39.5/ 85.6 | 39.7/ 81.7 |
|---|---------------|---------------|

Date: Oct 24 1987

Signed: H.B. Coffey
 Laboratory Director/Manager

ATT G

PHILADELPHIA QUADRANGLE
PENNSYLVANIA—NEW JERSEY
7.5 MINUTE SERIES (TOPOGRAPHIC)

489

75° 07'

488

75° 06'

MONSANTO CHEMICAL CAMDEN, NEW JERSEY CAMDEN COUNTY

LAT. $39^{\circ} 56' 20''$
LONG. $75^{\circ} 06' 15''$

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS

CAMDEN QUADRANGLE
NEW JERSEY—PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)